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April 13, 2012

Kim Tisa, PCB Coordinator
U.S. Environmental Protection Agency, Region 1
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Mail Code: OSRR07-2
Boston, MA 02109-3912

Re: Modification (Ground-Level Windows & Courtyard) to:
Notification of TSCA Self-Implementing Clean-up of PCBs
Curtain Wall Replacement Project
JFK Federal Building
Boston, Massachusetts
ATC Job No. 060.41885.0001

Dear Ms. Tisa:

Please find enclosed a Modification to the Notification for a self-implementing clean-up of PCBs under the Toxic Substances Control Act, 40 CFR 761.61(a), prepared by ATC and dated November 3, 2011 (Notification). It has been prepared to meet the requirements of Approval Condition 16 of the EPA's conditional approval letter of the original Notification dated March 21, 2012. This Modification is submitted to EPA for review and approval on behalf of the United States General Services Administration. This submittal modifies the Notification to incorporate the plan for clean-up of PCB-impacted building materials around 26 ground-level windows on the low-rise portion of the building, as well as around certain windows in the inner courtyard of the low-rise portion of the building.

The GSA is ready to proceed with the work detailed in this Notification Modification upon receiving the EPA's approval. If you have any questions, please contact the undersigned at (781) 932-9400.

Sincerely,
ATC Associates Inc.

Daniel P. White, PG
Senior Project Manager

Michael Gitten, LSP, PE
Division Manager, Environmental Services

cc: John Buckley, GSA
Amy Lane, APSI
Kenneth Kimmell, Commissioner, Massachusetts DEP, One Winter St., Boston, MA 02108
Barbara Ferrer, Executive Director, Boston Public Health Commission, 1010 Massachusetts Avenue, Boston, MA 02118

MODIFICATION (GROUND-LEVEL WINDOWS & COURTYARD) TO NOTIFICATION OF TSCA SELF-IMPLEMENTING CLEAN-UP OF PCBS

CURTAIN WALL REPLACEMENT PROJECT
JFK FEDERAL BUILDING
BOSTON, MASSACHUSETTS

APRIL 13, 2012

Prepared for:

United States General Services Administration
10 Causeway Street
Boston, MA 02222

Prepared by:

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ATC Project No. 060.41885.0001

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1 INTRODUCTION

ATC Associates Inc. (ATC) has prepared this Modification to the November 3, 2011 Notification/Certification of a self-implementing clean-up of polychlorinated biphenyls (PCBs) (Notification), previously submitted to EPA by ATC and clarified by various ATC submittals in response to EPA comments through March 15, 2012. The Notification was subsequently approved via a March 21, 2012 conditional approval letter from the EPA. The Notification and this Modification were prepared under the Toxic Substances Control Act (TSCA), on behalf of the United States General Services Administration (GSA).

The Notification was provided for planned replacement of the curtain walls (exterior glass walls) at the JFK Federal Building, located at 15 New Sudbury Street, Boston, Massachusetts. The JFK Federal Building is hereinafter referred to as the Site. This Modification documents the plan for clean-up of PCB-impacted building materials around 26 ground-level windows on the low-rise portion of the building, as well as various windows and glass-walled doorways in the inner courtyard of the low-rise portion of the building. Both of these areas have been added to the scope of work for the curtain wall replacement project.

This Modifications is provided in accordance with EPA approval Condition 16, subject to the procedures of 40 CFR § 761.61 (a)(3)(ii). This Modification has been prepared in accordance with the TSCA requirements for a self-implementing clean-up plan, as outlined at 40 CFR 761.61(a), with an expanded scope since previous submittals.

1.1 ENTITY SUBMITTING MODIFICATION TO NOTIFICATION

The following is information regarding the entity submitting this Modification:

Entity:	United States General Services Administration
Address:	10 Causeway Street Boston, MA 02222
Contact:	John F. Buckley Senior Project Manager john.buckley@gsa.gov
Telephone:	617-428-4502

2 SITE BACKGROUND AND HISTORY

This Section provides Site background and history, including a Site description and summary of the discovery of PCBs at the Site. Section 2.3 includes information on PCB characterization sampling, as required by **40 CFR 761.61(a)(3)(i)(B)**.

2.1 GENERAL LOCATION

A vicinity map showing the location of the Site is included as ***Figure 1***. The Site is located in a commercial and institutional area of downtown Boston, bounded by the following properties:

- North - New Sudbury Street, followed by the Government Center parking garage, a Boston Police Precinct Station, and a commercial building
- East - Congress Street, followed by a commercial building
- South - City Hall Plaza and Boston City Hall
- West - Cambridge Street, followed by a commercial building

2.2 FACILITY AND SITE DESCRIPTION

The Site is an office building owned by the federal government that houses offices of various federal agencies. The building was constructed between 1963 and 1966 and consists of a "high-rise" tower on the west end that is 24 stories in height, and a "low-rise" wing on the east end that is four stories in height. The high-rise and low-rise portions of the building are connected with a small two-story connector wing. There is one below-grade level beneath the low-rise portion of the building, described in this Modification as the "ground level". A drawing of the north elevation (profile) of the building is included as ***Figure 2***. An inner courtyard is located in the middle of the low-rise portion of the building, as shown on ***Figure 3***. The courtyard has no roof and the ground level of the building is located beneath the courtyard. The courtyard is not open to the general public outside standard business hours.

The exterior facades (including courtyard facades) of both portions of the building are similar in construction. The majority of the exterior consists of dense poured concrete with decorative aggregate texture, with inset window openings. A curtain wall (glass wall) exists on both the north and south sides of both the high-rise and low-rise portions of the building, as shown for the north side on ***Figure 2***. The curtain walls extend from the ground level to near the top of the building, and are approximately 25-40 feet wide. The original Notification was submitted to outline planned remediation of PCB-containing caulk abutting and within these curtain walls.

A window and curtain wall replacement project is currently underway at the Site. GSA plans to replace the ground-level and inner courtyard windows in the near future. The window replacement will consist of removing the existing windows and replacing with similar windows that have enhanced energy efficiency and security features.

Note that a child-care center is located on the ground floor of the north side of the low-rise portion of the building, as shown on ***Figure 4***. A playground, located outside beyond the northeast corner of the building, is for use by children from the child-care center. The playground, as shown on ***Figure 4***, is approximately 70 by 70 feet in size and enclosed by low granite walls and chain-link fencing. The entire playground area has a soft rubber surfacing material. The playground is currently locked and not in use. Children do not routinely occupy or visit any other areas of the building.

ATC and/or GSA have conducted PCB sampling of various materials and media in the playground area, as well as indoor air samples and wipe samples in the child-care center. PCB containing caulk around ground-level window exteriors (described in the next section) likely has

impacted playground materials. PCBs have been detected within indoor air of the child-care center. GSA plans to address PCB impacts in the playground and child-care center separately from the window replacement project. GSA will submit a letter report outlining all data acquired to date from the playground and child-care center, as well as interim measures that have been conducted to date in the child-care center, in the near future. Formal submittal of a TSCA clean-up plan to deal with these areas will follow after remedial options have been evaluated.

2.2.1 Description of Ground-Level Windows

The ground level of the low rise portion of the building is above-grade on the north and east sides of the building. The façade of the ground level, extending to the ground, consists of polished granite. Inset into the granite façade are a total of 26 rectangular windows (named G1 through G26) on the north and east sides of the building. The north elevation drawing included as ***Figure 3*** shows the general configuration of the windows. The location of each window on the ground level façade is shown on ***Figure 4***. Photographs of the windows are included in ***Appendix A***.

Each ground-level window is approximately two feet wide by six feet high, consisting of a single pane of glass set in a metal frame. The window panes are held in place mechanically, without the use of window glazing compound. The windows are set back from the plane of the façade approximately 12 inches, and surrounded by a polished granite "surround". A bead of caulk is present between the front exterior edge of the metal frame and back corner of the granite surround on most of the windows (except windows G3, G4, and G5, where it appears to have been removed at some time in the past and not replaced). The metal frame is roughly rectangular in cross-section and extends approximately two inches behind the edge of the granite block forming the window surround. A thin (<1/4 inch) gap exists between the edge of the window frame and the back surface of the granite surround. A cavity exists around the window frame behind the granite façade blocks. A cross-sectional diagram of the ground-level windows is included as ***Figure 5***.

The cavity at window G1 contained mortar filler. A picture of the mortar in the window cavity is attached in ***Appendix A***. A small amount of mortar extends into the small 1/8- to ¼-inch space between the window frame flange and the exterior granite window surround, but not in all locations. This mortar is in close proximity to the exterior caulk which is an estimated two inches beyond the interior edge of the window frame flange. The cavity at 10 other windows that were inspected by ATC either contained loose insulation (windows G6 through G12) or was empty. The cavity is enclosed on the interior with drywall.

The exterior caulk between the metal window frames of the ground-level windows and granite window surround is smooth and rubbery, dark gray in color, and appeared to be the same material at each ground-level window. In three windows (G3, G4, and G5) the caulk appears to have been removed at some point in the past and not replaced.

Building materials adjacent to suspect caulk include metal window frames and granite window surrounds, with cavity materials within the cavity next to the window frames a short distance (<6 inches) away through a thin gap.

2.2.2 Description of Courtyard

An inner courtyard is located in the middle of the low-rise portion of the building. The courtyard has no roof and contains landscaping and masonry paver walkways that extend from entrances on the first floor on the south side of the courtyard. The ground level of the building is located beneath the courtyard. Drawings of all four courtyard elevations are provided as ***Figure 6***.

Most of the facades of the courtyard consist of poured concrete walls with inset windows. The east elevation of the courtyard consists of two-story high windows across the first and second stories, each inset into the poured concrete walls. The walls of the fourth floor of the entire courtyard (all four elevations) are set back behind a parapet wall. A "curtain wall"-type row of windows runs continuously around the courtyard on this floor, with side-by-side panes of glass separated by metal window frames. Two glass doorways are located at the first floor level on the south side of the courtyard, providing access to the courtyard from the interior of the building. Each of these doorways includes a double door surrounded by an additional row of glass panels above and to the sides.

Suspect caulk/sealant materials that will be disturbed during window replacement in the courtyard are found in four distinct areas of the courtyard, including:

- East elevation tall windows (interior and exterior)
- 4th floor row of windows (all four elevations) (exterior only)
- Doorways (exterior only)
- 1st floor inset windows (interior only)

Building materials adjacent to suspect caulk/sealant include metal window frames, glazing (glass), poured concrete walls, metal door thresholds, and/or stone pavers.

Suspect caulk/sealant material types are described in ***Table 1*** below. ***Table 1*** also includes a description of materials adjacent to the suspect caulk/sealant materials that were sampled for PCB analysis.

Table 1: Courtyard Materials Sampled

Material Type – Number & Name	Sample Set Location ID #	Description	Extent (linear feet)
Exterior			
#1 - Frame-Concrete Caulk	1, 4, 5, 6, 7	Beige rubbery caulk material between metal window/curtain wall frames and concrete building wall. At 4th floor level (Locations #6 & #7), beige rubbery caulk was overlying white rubbery caulk, with a very thin layer of clear plastic between; the two layers were submitted together for analysis.	800
#2 - Glazing Sealant - Ext	1, 2, 3, 6, 7	Sampled types included white translucent rubbery material, black rubbery material, gray rubbery material, and black sticky material, all between metal window/curtain wall frames and glazing (glass)	2,700

Material Type – Number & Name	Sample Set Location ID #	Description	Extent (linear feet)
#3 - Frame-Frame Caulk	2	Medium gray sticky caulk material between two adjacent metal window/curtain wall frames; only located on part of vertical edges of east elevation tall windows adjacent to north and south elevation windows	40
#4 - Concrete	3, 5, 6	Concrete building wall adjacent to frame/wall caulk bead. See attached photographs for specific sample locations at each sample set Location.	Max. 400 square feet (concrete >1 ppm, within 6 inches of caulk)
#5 - Paver	4	Red masonry pavers forming a path approximately two feet from the base of two south elevation courtyard doorways	NA
#6 - Wipe (Metal Frame)	1, 2, 3, 4, 5, 6, 7	Wipe of metal frame adjacent to sampled caulk bead	2,700 (exterior only)
#7 - Wipe (Glass)	1, 2, 3, 4, 5, 6, 7	Wipe of glass adjacent to wipe-sampled metal frame	4,100 square feet (one side only)
Interior			
#8 - Glazing Sealant – East Elevation	NA (East elevation tall windows)	Five distinct types of caulk materials between metal window/curtain wall frames and glazing (glass) on the east elevation tall windows. Caulk was black, dark brown, or dark gray, and mostly rubbery. One type appeared to be silicone, while another was relatively brittle. Exact distribution of each type could not be clearly established (serves same purpose, different times of placement/ repair).	320
#9 - Glazing Sealant – 1st Floor Windows	8, 9, 10	Sticky black caulk/sealant around end of glazing (glass) where it fits into frame on 1st floor courtyard windows.	1,000
#10 - Trim Sealant – 1st Floor Windows	8, 9, 10	Brittle dark or light gray sealant (assumed to be same material) underneath window trim at edge of glazing (glass) on 1st floor courtyard windows.	1,000

Photographs of the courtyard windows are included in ***Appendix B***.

2.3 PCB CHARACTERIZATION SAMPLING

This section outlines the additional building material PCB characterization sampling that has been conducted in the vicinity of the ground-level and inner courtyard windows at the Site since Notification submittal. The objective of the sampling work was to evaluate the extent of PCB content in caulk and adjacent building materials within the ground-level and courtyard window replacement project boundaries.

In the vicinity of the ground-level windows, ATC conducted bulk sampling of caulk and mortar in window cavities, as well as wipe sampling of granite wall surfaces, to define the nature and extent of PCB contamination. In summary, 10 caulk samples, 4 bulk mortar samples, and 9 wipe

samples (including duplicate and blank samples) were collected for PCB laboratory analysis from the ground-level window areas.

In the vicinity of the courtyard windows that have caulk/sealant that will be disturbed during the window replacement project, ATC conducted bulk sampling of various types of caulk/sealant, as well as adjacent concrete surfaces and nearby masonry pavers, to define the nature and extent of PCB contamination. ATC also collected wipe samples from glass and metal window frames near suspect caulk/sealants. In summary, 30 caulk/sealant samples, 10 bulk concrete samples, 3 bulk paver samples, and 15 wipe samples (including duplicate and blank samples) were collected for PCB laboratory analysis from the courtyard window areas.

The remainder of this section discusses the sampling and analytical details. Results are presented in Section 3. Note that ATC also analyzed caulk/sealants around the ground-level and courtyard windows for asbestos and found only one sample that contained asbestos, from a sample of caulk on the interior of the east elevation tall windows in the courtyard.

2.3.1 Ground-Level Window Building Materials Sampling

ATC employee Brian Cooke performed sampling activities from December 12th through 15th, 2011. ATC collected an exterior caulk sample from one location on each of nine different ground-level windows. ATC collected caulk samples from windows G2, G6, G7, G8, G9, G10, G11, G12, and G13 (see attached ***Figure 4***). All locations were accessible from the exterior ground level.

ATC collected caulk samples with hand tools. The blade on the tool used for sample collection was replaced between sample locations.

ATC collected two wipe samples at four of the windows where caulk samples were collected, from the polished granite façade on the outside of each window. This granite surface surrounds each window and is the façade cladding material on the ground level of the building. At each window, one wipe sample was collected below the window and one on the side of the window. The objective of the granite wipe samples was to enable a determination of how much of the granite surface must be decontaminated of PCBs, if any. ATC assumed that the granite forming the window surround (positioned at an approximately 90-degree angle to the window glass surface) would be decontaminated as part of proposed abatement, and so was not sampled. The wipe samples were collected from just beyond this window surround, on the edge of the granite surface that is in the same plane as the window glass. A picture of typical wipe sample locations near a window is included in the photographs in ***Appendix A***.

Wipe samples were collected using standard EPA protocols, which included using a one-time-use disposable template to outline a 100 cm^2 sample area and wiping the area one time across the full width of the sample area in each direction using a hexane-wetted gauze pad and moderate finger pressure. The gauze pads were placed in laboratory-supplied sample jars and stored on ice.

At window G1 (where mortar is located in the cavity to the side of the window), ATC collected three interior mortar samples at varying distances from exterior caulk. The mortar was covered on the interior with drywall until recent exploratory demolition. Samples were collected from behind the window frame flange, and at distances of one and three inches from the interior edge

of the window frame flange (see photographs in ***Appendix A***). The samples were collected with a hammer and chisel. The chisel used for sample collection was decontaminated between samples by wiping with a hexane-wetted paper towel. As noted in Section 2.2.1, mortar was not present in the other windows investigated by ATC.

For quality assurance purposes, ATC collected one duplicate caulk sample, one duplicate wipe sample, and one duplicate mortar sample, and one trip blank wipe sample.

Samples were placed in sealed laboratory-supplied containers and labeled appropriately. ATC submitted all caulk, wipe, and mortar samples collected under chain-of-custody protocol to Con-Test Analytical Laboratories of East Longmeadow, Massachusetts (Con-Test) for chemical extraction using EPA method 3500B/3540C of SW-846 (Soxhlet Extraction) and chemical analysis for PCBs using EPA method 8082 of SW-846. ATC requested that the laboratory hold the wipe and mortar samples until the results of the caulk samples were known. Once the caulk sample results indicated high PCB levels, ATC instructed the laboratory to run the held samples.

2.3.2 Inner Courtyard Building Materials Sampling

ATC employees Dan White, Chris Amorelli, and Jon Barker performed the courtyard sampling activities on several dates, including January 12, 2012 and February 1 and 2, 2012.

On January 12, 2012, ATC collected a total of seven samples from caulk sealant materials beneath metal trim molding on the interior perimeter of courtyard windows on the 1st floor level. These 1st floor windows are constructed slightly differently than 2nd and 3rd story courtyard windows, and have caulk/sealants that will be disturbed when the old trim "stops" and glass panes are removed (see photograph in ***Appendix B***). Contractors for the window project were present to remove the trim stops. Samples of each material observed were collected from one window in each of the west, north, and south elevations of the courtyard (Locations #8, #9, and #10), as shown on ***Figure 6***. The two types of caulk/sealant materials sampled are described in ***Table 1***.

On February 1 and 2, 2012, ATC collected a total of 36 bulk samples of caulk materials, concrete adjacent to the caulk, and masonry pavers near the caulk, as well as a total of 15 wipe samples on non-porous materials adjacent to the caulk, in various locations. These locations included courtyard sample set Locations #1 through #7, as well as various locations on the interior of the east elevation tall windows, as shown on ***Figure 6***. The materials sampled are described in ***Table 1***. Note that each sample is also grouped according to type of material in ***Table 2***.

The bulk concrete samples were collected at distances of one, six, and 12 inches horizontally away from the nearest caulk joint (see photograph in ***Appendix B***). The metal frame wipe samples were collected adjacent to the caulk joint (at a distance of one inch from the caulk bead) and the glass wipe samples were collected on the glass nearest to the frame wipe sample (at a distance of six inches from the frame sample) (see photograph in ***Appendix B***).

ATC collected samples of red paver materials that form part of a pathway into the courtyard area. The red pavers are found beyond a row of gray masonry pavers and a row of dark gray stone pavers, which are adjacent to the caulk joint at the base of the ground-level doorway entrances on the south elevation of the courtyard (see photograph in ***Appendix B***). ATC assumed that the gray

masonry and dark gray stone pavers are impacted with PCBs, since they are close to the caulk and can relatively easily be removed and properly disposed of. The samples from the red pavers were intended to evaluate the extent of PCB impact, if any, away from the base of the doorway.

In summary, the following samples were collected at each courtyard sample set location:

Table 2: Summary of Samples at each Courtyard Sample Set Location

	Material Type – Number & Name									
	Exterior							Interior		
Sample Set Location # (see Figure)	#1 - Frame-Concrete Caulk	#2 - Glazing Sealant – Ext.	#3 - Frame-Frame Caulk	#4 - Concrete	#5 - Paver	#6 - Wipe - Frame	#7 - Wipe - Glass	#8 - Glazing Sealant – East Elevation	#9 - Glazing Sealant – 1st Floor Windows	#10 - Trim Sealant – 1st Floor Windows
1	X	X				X	X			
2		X	X			X	X			
3		X		X		X	X			
4	X				X	X	X			
5	X			X		X	X			
6	X	X		X		X	X			
7	X	X				X	X			
8									X	X
9									X	X
10									X	X
Interior East elevation tall windows								X		

All locations were accessible from the ground level.

For quality assurance purposes, ATC collected one duplicate concrete sample, one duplicate caulk sample, and one duplicate wipe sample.

ATC collected caulk and wipe samples as described in the previous section. Note that a 10 cm x 10 cm area is typically used, but to enable better delineation with distance away from the joint on the metal frames, ATC used a 4 cm x 25 cm template instead on the metal frames, with the long edge of the template aligned parallel to the joint.

ATC collected concrete samples from surficial concrete (zero to a depth of 0.5 inches maximum) with a maximum disturbed area approximately two inches in diameter. ATC used the sampling

procedures outlined in the EPA document *Standard Operating Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs), EPA New England - Region I*, May 5, 2011. This procedure entails the use of a hammer drill to drill or chip a hole into the concrete, generating concrete powder/chips that is then collected and submitted to a laboratory for analysis. The drill bits used for sample collection were decontaminated between sample locations by gross cleaning with a wet paper towel, then wiping with a hexane-wetted paper towel. ATC repaired concrete sample locations with a white silicone caulk material approved by APSI.

ATC collected paver samples using a hammer and chisel to break off a small piece of the top of the paver (maximum depth of 0.5 inches). The chisel was decontaminated between sample locations by gross cleaning with a wet paper towel, then wiping with a hexane-wetted paper towel.

Samples were handled and analyzed as described in the previous section.

3 NATURE AND EXTENT OF PCB CONTAMINATION

This Section provides a summary of the media associated with the ground-level and courtyard windows that are contaminated by PCBs and the extent of contamination in that media, as required by **40 CFR 761.61(a)(3)(i)(A)** and **40 CFR 761.61(a)(3)(i)(C)**.

3.1 GROUND-LEVEL WINDOWS

The following discussion provides a summary of PCB results for various building materials assessed in the vicinity of the ground-level windows.

3.1.1 Caulk

The laboratory data for analysis of PCBs in caulk at ground-level windows are presented in ***Table 3***. The laboratory analytical reports are provided in ***Appendix C***. PCBs were detected in all caulk samples. Aroclor 1254 was the only Aroclor observed, which is common for PCBs in caulk and similar to the PCBs detected in caulk in other areas of the building. For each presumed homogeneous type of ground-level window caulk, PCB data are summarized in the ***Table 4*** below.

Because of the elevated concentrations of Aroclor 1254 in the samples, the detection limit for remaining Aroclors was relatively high, which may mask the actual presence of these non-detected PCB Aroclors. However, this has no effect on remedial decisions, since a total PCB concentration greater than 50 ppm is the regulatory criteria for determining proper disposal methods.

Table 4: Summary of PCBs in Caulk Materials – Ground-Level Windows

Homogeneous Caulk/Sealant Material	Minimum (ppm)	Maximum (ppm)	TSCA PCB Classification	Classification Reasoning
Exterior				
Ground-Level Window Caulk	220,000	410,000	PCB Bulk Product Waste	All samples > 50 ppm
Interior				
None	NA	NA	NA	NA

Concentrations in mg/kg (ppm)

As reported in the original Notification, window caulk associated with the curtain walls had PCB concentrations ranging from 380 to 50,000 and consisted solely of Aroclor 1254.

3.1.2 Mortar

The laboratory data for analysis of PCBs in interior window cavity mortar (ground-level window G1 only) are presented in ***Table 3***. The laboratory analytical report is provided in ***Appendix C***. PCBs were detected in the mortar samples, with detected total PCB concentrations ranging from 0.86 to 17 mg/kg (ppm). The highest concentration was observed at a distance of one inch into the window void from the edge of the window frame flange. The concentration behind the flange (near the exterior caulk) and at a distance of three inches from the flange in the window void were similar, at approximately 7 ppm. Aroclor 1254 was the only Aroclor observed, which matches the Aroclor observed in window caulk, the presumed source of PCBs in cavity mortar. ATC assumes that the mortar has become contaminated from the exterior caulk, and would therefore be considered a PCB Remediation Waste.

Because of the loose nature of the insulation material that ATC observed in most other ground-level window cavities, the insulation does not touch or come close to the exterior caulk. However, ATC conservatively assumes that it contains PCBs > 50 ppm, and therefore, when removed during the window replacement project, it will be handled and disposed as PCB Remediation Waste.

3.1.3 Building Material Wipes

The laboratory data for analysis of PCBs in wipe samples is presented in ***Table 5***, attached. The laboratory analytical report is attached in ***Appendix C***. Wipe samples were performed by ATC on non-porous building material surfaces. For the granite wall surface wipe samples, PCBs were detected in six of nine wipe samples (including the duplicate), with total PCB concentrations ranging from <0.020 to 16 ug/100 cm^2. Aroclor 1254 was the only Aroclor observed, which matches the Aroclor observed in the caulk, the presumed source of PCBs in wipe samples. For two out of the four ground-level windows where wipe samples were collected, the bottom sample had a higher PCB concentration than the side sample, which is consistent with precipitation washing low levels of PCBs down from the window frames. At one other window, both bottom and side wipe PCB concentrations were non-detectable, and at the fourth window, the side wipe PCB concentration was very low (0.21 ug/100 cm^2) while the bottom wipe concentration was non-detectable. Only one wipe sample (G2-Wipe-Bottom, at 16 ug/100 cm^2) contained a

concentration of total PCBs greater than 10 ug/100 cm^2, the most stringent TSCA cleanup criteria for non-porous surfaces.

3.2 COURTYARD WINDOWS

The following discussion provides a summary of PCB results for various building materials assessed in the vicinity of the courtyard windows.

3.2.1 Caulk/Glazing Sealant

The laboratory data for analysis of PCBs in caulk/glazing sealant are presented in ***Table 6***. The laboratory analytical reports are provided in ***Appendix C***. PCBs were detected in all caulk/glazing sealant samples. In most samples, Aroclor 1254 was the only Aroclor observed, which is common for PCBs in caulk. In various caulk samples from the interior of the courtyard windows, Aroclor 1248 was also observed (or observed with non-detectable concentrations of Aroclor 1254), at a concentration slightly higher than Aroclor 1254.

Because of the elevated concentrations of Aroclor 1254 in most samples (and Aroclor 1248 in some samples), the detection limit for remaining Aroclors was relatively high, which may mask the actual presence of these non-detected PCB Aroclors. However, this has no effect on remedial decisions, since a total PCB concentration greater than 50 ppm is the regulatory criteria for determining whether a caulk/sealant material is a PCB Bulk Product Waste.

Table 7: Summary of PCBs in Bulk Materials - Courtyard

Homogeneous Building Material Type – Number & Name	Interior/ Exterior	Minimum (ppm)	Maximum (ppm)	TSCA PCB Classification	Classification Reasoning
Caulk					
#1 - Frame-Concrete Caulk	Exterior	250	23,000	PCB Bulk Product	All samples >50 ppm
#2 - Glazing Sealant – Ext.	Exterior	52	5,200	PCB Bulk Product	All samples >50 ppm
#3 - Frame-Frame Caulk	Exterior	360,000	430,000	PCB Bulk Product	All samples >50 ppm
#8 - Glazing Sealant (Type 1)	Interior	80 (1 sample)		PCB Bulk Product	Sample >50 ppm
#8 - Glazing Sealant (Type 2)	Interior	20	32	PCB Bulk Product	Both samples <50 ppm, but too difficult to segregate from nearby >50 ppm PCB caulks
#8 - Glazing Sealant (Type 3)	Interior	4	16	PCB Bulk Product	Both samples <50 ppm, but too difficult to segregate from nearby >50 ppm PCB caulks

Homogeneous Building Material Type – Number & Name	Interior/ Exterior	Minimum (ppm)	Maximum (ppm)	TSCA PCB Classification	Classification Reasoning
#8 - Glazing Sealant (Type 4)	Interior	45	78	PCB Bulk Product	One of two samples >50 ppm
#8 - Glazing Sealant (Type 5)	Interior	39	140	PCB Bulk Product	One of two samples >50 ppm
#9 - Glazing Sealant – 1st Floor Windows	Interior	4,600	11,800	PCB Bulk Product	All samples >50 ppm
#10 - Trim Sealant – 1st Floor Windows	Interior	35	239	PCB Bulk Product	Two of four samples >50 ppm
Concrete					
#4 - Concrete	Exterior	<0.095	41	PCB Remediation Waste (material within 6 inches of caulk)	Adjacent to PCB Bulk Product Waste caulk; assumed contaminated by caulk; some samples >1 ppm
Pavers					
Dark Gray Stone	Exterior	Assumed PCBs >50 ppm		PCB Remediation Waste	Pavers abutting PCB Bulk Product Waste caulk; assumed contaminated by caulk
Light Gray Masonry	Exterior	Assumed PCBs >50 ppm		PCB Remediation Waste	Pavers close (within 2 feet) to PCB Bulk Product Waste caulk; assumed contaminated by caulk
#5 - Red Masonry	Exterior	<0.095	0.53	Non-Regulated	All 3 samples <1 ppm

Note: Concentrations in mg/kg (ppm)

As reported in the original Notification, window caulk associated with the curtain walls had PCB concentrations ranging from 380 to 50,000 and consisted solely of Aroclor 1254.

3.2.2 Wall Concrete

The laboratory data for analysis of PCBs in exterior concrete are presented in ***Table 6***, attached. The laboratory analytical report is provided in ***Appendix C***. At two sample set locations (#3 and #5), PCBs were detected in all the concrete samples, with total PCB concentrations ranging from 0.32 to 41 mg/kg (ppm). Aroclor 1254 was the only Aroclor observed, which matches the Aroclor observed in the frame/concrete caulk, the presumed source of PCBs in concrete. PCBs in the two concrete sample sets with detections had declined to below 1 ppm within 6 inches of the Frame/Concrete caulk at both locations. At the final sample set location (#6), no PCBs were detected in any of the four samples (including 1 duplicate), with a maximum detection limit of

0.10 ppm. This lack of PCB detections may be due to the sample set location above the caulk joint (the only concrete adjacent to caulk on the fourth floor level) and near the top of the building. ATC assumes that the wall concrete has become contaminated from the exterior caulk, and would therefore be considered a PCB Remediation Waste.

3.2.3 Masonry Pavers

The laboratory data for analysis of PCBs in red masonry pavers are presented in ***Table 6***, attached. The laboratory analytical report is provided in ***Appendix C***. As noted previously, ATC assumed that the gray masonry pavers and dark gray stone pavers closer to the frame/concrete caulk are impacted with PCBs >50 ppm, and will be removed and disposed as PCB Remediation Waste. The samples from the red pavers were intended to evaluate the extent of PCB impact further away from the base of the doorway. PCBs were detected in two of the three samples of red paver collected, both at concentrations of <1 ppm PCBs (0.52 and 0.53 ppm). At the third sample location, no PCBs were detected, with a maximum detection limit of 0.095 ppm. Aroclor 1254 was the only Aroclor observed, which matches the Aroclor observed in the frame/concrete caulk, the presumed source of PCBs in the pavers.

3.2.4 Building Material Wipes

The laboratory data for analysis of PCBs in wipe samples is presented in ***Table 8***, attached. The laboratory analytical report is attached in ***Appendix C***. Wipe samples were performed by ATC on non-porous building material surfaces. The laboratory analytical reports are also attached. PCBs were detected in 6 of 8 frame wipe samples, with total PCB concentrations ranging from 0.88 to 19 ug/100 cm^2. PCBs were detected in 2 of 7 glass wipe samples, with total PCB concentrations of 0.33 and 0.35 ug/100 cm^2. Aroclor 1254 was the only Aroclor observed, which matches the Aroclor observed in the frame-concrete caulk, the presumed source of PCBs in wipe samples (glazing sealant generally had lower concentrations of PCBs). Only two wipe samples (both from the metal frame adjacent to caulk) contained a concentration of total PCBs greater than 10 ug/100 cm^2, the most stringent TSCA cleanup criteria for non-porous surfaces such as metal frames and glass. Wipe samples on glass, farther from caulk beads, had only low concentrations of PCBs.

3.3 QUALITY ASSURANCE

For quality assurance purposes, ATC collected various duplicate samples for PCB analysis, including one duplicate bulk mortar sample, one duplicate concrete sample, two duplicate wipe samples, and two duplicate caulk samples.

Duplicate sample results were all relatively similar to the original samples. The duplicate samples of caulk had a Relative Percent Difference (RPD) of 0% and 78%, the duplicate sample of mortar had an RPD of 157%, and the duplicate of the concrete had an RPD of 0% (both non-detect). The RPD for one of the wipe duplicates was 89%, while the RPD for the other wipe sample duplicate cannot be evaluated since one of the two samples had a non-detectable concentration while the other was detected. The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses recommends that the RPD for non-aqueous matrices should be <50%. The EPA recommends that the values be qualified as estimated if the

RPD is greater than this value. ATC views all data as usable for the purposes of this Notification Modification.

Laboratory Quality Assurance issues for each type of analysis, and a conclusion on the ramifications of quality assurance issues on data usability, is summarized in the table below. Note that only certain samples had the issues noted.

Table 9: Laboratory Analytical Quality Assurance Issues

Analytical Parameter	Media	Type of QA Issue	Ramifications
PCBs	Caulk/ Mortar/ Wipes	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD is within criteria.	None – elevated detected PCB concentrations not likely to change.
PCBs	Caulk/ Mortar/ Wipes	Continuing calibration did not meet method specifications and was biased on the low side for Aroclor 1260.	Minimal effect since Aroclor 1260 not detected. Increased uncertainty; reported concentration for 1260 is likely to be biased on the low side. Elevated detected total PCB concentrations not likely to change.
PCBs	Caulk/ Mortar/ Wipes	Matrix spike recovery outside of control limits, possibility due to sample matrix effects or non-homogeneous sample aliquots cannot be eliminated.	Possibly high bias for reported result. Elevated detected PCB concentrations not likely to change.
PCBs	Caulk/ Concrete/ Wipes	Detection limits elevated due to dilutions required because of detected PCBs.	High detection limits may mask the actual presence of some PCB Aroclors that were reported as non-detect. For caulk, this would not change PCB waste classification and does impact data usability. This situation only occurred for two concrete samples and two wipe samples, both of which already had elevated concentrations of the detected Aroclor. For all media, it is not likely to impact data usability because the primary detected Aroclor (1254) in samples is the Aroclor typically seen in caulk and other media at this building and elsewhere; other Aroclors that had elevated detection limits in these samples are typically not present.
PCBs	Concrete/ Pavers	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits.	RPD between the two MS/MSD results is within method specified criteria. Data considered usable.
PCBs	Caulk/ Concrete	No surrogate recoveries due to dilutions required because of elevated detected PCBs.	None – elevated detected PCB concentrations in affected caulk samples not likely to change. PCB concentrations in concrete were either significantly less than 1 ppm or >25 ppm.

Analytical Parameter	Media	Type of QA Issue	Ramifications
PCBs	Caulk	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.	None – elevated detected PCB concentrations >50 ppm in affected caulk samples not likely to change.
PCBs	Caulk	Surrogate recovery outside of control limits in BS/MS spiked sample.	All reported analytes are within control criteria, data not significantly affected.

All laboratory analytical results are viewed as valid and usable for the purposes of this TSCA clean-up plan.

4 MODIFICATION TO SELF-IMPLEMENTING CLEAN-UP PLAN

This Section of the Modification details the clean-up plan, as required by **40 CFR 761.61(a)(3)(i)(D)**.

The objective of this Modification is to remove and dispose of PCB Bulk Product Waste that is being disturbed during replacement of the ground-level windows and certain inner courtyard windows, and remove or remediate PCB Remediation Waste that is adjacent to the PCB Bulk Product Waste. New windows will be installed in the same locations and with similar construction details as the old windows. Confirmatory samples (including indoor air samples) will be collected following remediation.

Note that this Modification does not cover remediation of PCB impacts within the child-care center or children's playground that abuts the northeast corner of the building. That remedial effort will be covered under a separate clean-up plan to be submitted.

Exterior areas of granite wall surfaces in the vicinity of the ground-level windows are impacted with PCBs and are considered Remediation Waste. The source of the PCBs is considered to be the exterior ground-level window caulk. Some areas of the granite wall surface (around windows G14 through G17) fall within a children's playground area, which would be considered to be "high occupancy", with annual occupancy by any one person greater than 335 hours per year (average of 6.7 hours per week, given a 2-week vacation per year). Therefore, the high-occupancy clean-up criteria of 10 ug/100 cm^2 for a non-porous surface applies. ATC has conservatively assigned this criteria to all areas of the granite wall surfaces around the ground-level windows, even though many areas of the exterior wall surface would actually be considered low occupancy. This conservative assumption does not significantly affect the level of effort for remediation of the granite wall surfaces, since decontamination of this non-porous surface is straightforward. For the granite wall surfaces abutting the children's playground area, the goal will be to reduce levels to 1 ug/100 cm^2 or less.

Exterior concrete wall surfaces adjacent to the edges of some identified courtyard windows are impacted with PCBs and are considered Remediation Waste. The source of the PCBs is considered to be the exterior courtyard window caulk. PCBs in exterior concrete are present at no

more than 41 ppm. All areas of concrete impacted with PCBs within the courtyard are considered to be "low occupancy", with annual occupancy by any one person of less than 335 hours per year (average of 6.7 hours per week, given a 2-week vacation per year). This is justified based on the fact that use of the courtyard is only for limited purposes (as an outdoor break location), is not open to the public outside normal business hours, and no smoking is allowed in the courtyard, which might lead to more extended use. Therefore, the low-occupancy clean-up criteria of 25 ppm for a porous surface applies to the impacted exterior courtyard concrete. A deed restriction will be placed on the property to ensure that these conditions are maintained, which will include a clause that smoking is not allowed in the courtyard.

The primary steps of the self-implementing clean-up plan as it relates to the ground-level windows are:

1) Remove caulk containing PCBs from the around the exterior of the ground-level windows, and dispose off-Site as a PCB Bulk Product Waste;
2) Remove mortar and insulation cavity materials from the cavity on the side interior of the ground-level windows, and dispose off-Site as a PCB Remediation Waste;
3) Remove ground-level windows. Contractor shall have the option of either disposing of non-porous window metal frames and glass curtain wall materials as PCB Remediation Waste, OR cleaning metal and glass components and disposing as demolition debris. If cleaning non-porous components is the selected approach, confirmation wipe samples will be collected to ensure that remaining PCB concentrations on the surfaces of the non-porous materials are < 10 ug/100 cm^2.
4) Clean the remaining granite wall surfaces abutting and surrounding the ground-level windows chemically with a cleaning solution/solvent. Confirmation wipe samples will be collected to ensure that remaining PCB concentrations on the granite wall surfaces are </= 10 ug/100 cm^2. The goal in the playground area will be to achieve 1 ug/100 cm^2.
5) Collect indoor air samples from the child-care center to evaluate whether the remediation has reduced concentrations of PCBs in indoor air.

The primary steps of the self-implementing clean-up plan as it relates to the courtyard windows are:

1) Remove caulk/sealant containing PCBs from the around the exterior (and interior, in some locations) of the identified courtyard windows, and dispose off-Site as a PCB Bulk Product Waste;
2) Contractor shall have the option of either disposing of non-porous metal and glass window materials, without removing caulk, as PCB Bulk Product Waste OR cleaning metal and glass components after caulk/sealant has been removed and disposing as demolition debris. If cleaning non-porous components is the selected approach, confirmation wipe samples will be collected to ensure that remaining PCB concentrations on the surfaces of the non-porous materials are < 10 ug/100 cm^2.
3) Decontaminate minimal areas of metal window frames that will remain attached to the building in the 1^{st}-floor windows to achieve a maximum remaining concentration

of PCBs on the metal surfaces of 10 ug/100 cm^2. Confirmation wipe samples will be collected to ensure that remaining PCB concentrations are </= 10 ug/100 cm^2.

4) Decontaminate or remove a layer of the surface of the concrete wall beneath and within six inches of the Frame/Concrete caulk bead to achieve a maximum remaining concentration of PCBs in concrete of 25 ppm. Confirmation bulk samples will be collected to ensure that remaining PCB concentrations in the concrete are </= 25 ppm.

5) At the 2 doorways that are being replaced, remove dark gray stone pavers on the exterior next to doorway wall and the first row of light gray masonry pavers beyond the dark gray stone pavers, and dispose as PCB Remediation Waste. Also remove the metal threshold beneath the door and dispose as PCB Remediation Waste.

6) Install new windows.

7) Include restrictions specific to some areas of the courtyard windows where PCBs will remain in concrete in the deed notice already planned to be filed for the property with the Registry of Deeds.

The clean-up activities will be performed by qualified companies contracted by GSA. GSA is currently selecting a contractor to do the work. The selected contractor will provide the EPA with certification that they will comply with the Notification Modification and the forthcoming EPA approval. The abatement contractor will develop the final abatement sequence and means and methods in compliance with the Notification Modification and EPA approval.

Third party environmental oversight and review of the clean-up plan activities prior to, during, and after their performance will be performed. The third party inspector will monitor compliance with this Modification and any EPA conditional approvals.

4.1 PROCEDURES FOR IMPLEMENTATION

The primary steps of the self-implementing clean-up plan are detailed in the following subsections. The selected contractor will develop the final work sequence based upon the following proposed sequence. The contractor will prepare a site specific health and safety plan.

4.1.1 Ground-Level Windows

This section outlines remedial procedures for the ground-level window area.

4.1.1.1 Caulk Removal

All caulk around the exterior edges of the ground-level windows will be removed prior to removal of the windows. Alternatively, the entire window unit (frame/glass) may be removed as a unit with caulk still adhered to the frame. None of the caulk is considered Asbestos-Containing Material (ACM). Given that the windows are approximately six feet high by two feet wide (total perimeter of 16 linear feet), and there are 23 caulked windows (caulk is not present around windows G3, G4, and G5), there is a total of approximately 368 linear feet of PCB-containing caulk.

Methods will be used to contain caulk material within the work area. An enclosure will be installed around the work area, including polyethylene sheeting below the work area to contain all caulk that is removed.

Following removal of caulk, remaining surfaces that were in contact with the caulk (granite wall surfaces and metal window frames) will be inspected visually to ensure that no caulk is left.

Caulk waste generated will be managed as a PCB Bulk Product Waste, as described in Section 4.2. Tools used to remove the caulk will either be decontaminated at the end of work or disposed of as PCB Remediation Waste. Loose wastes generated under this task shall be transported from location of generation to the waste containers/dumpsters on the ground in minimum 6-mil doubled plastic bags.

4.1.1.2 Mortar and Insulation Removal

Methods will be used to contain the ground-level window cavity materials within the work area. Prior to removal of drywall to access the cavity materials, occupied rooms abutting the windows to be removed will be vacated. A sealed containment will be installed around the work area, including polyethylene sheeting below the work area to contain cavity materials that are removed, until the window unit is removed. If mortar is present in window cavities, the area will be placed under negative pressure with a HEPA filter air handling unit. Any power tools used to remove the cavity materials will be shrouded, with dust collection by HEPA-equipped vacuums.

All materials within the cavity to the side of the window frames, on the interior, will be removed and managed as PCB Remediation Waste. As outlined in Section 2.2.1, these materials include mortar at window G1, and possibly others, and blown-in insulation at windows G6 through G12, and possibly others. The cavity materials will be removed prior to removal of the window frames and glass. To access these cavity materials, drywall interior walls around the windows will be removed. None of the cavity materials is considered ACM. ATC estimates that each window cavity is approximately 2-3 cubic feet in volume. The total volume of removed mortar and insulation will depend on what materials are found in the cavities around unexplored windows, and how full each cavity is.

During cavity material removal, ambient dust monitoring will be conducted inside the building, outside the work area containments. Prior to the beginning of work, background dust readings will be collected for inside environments. During project work, dust readings will be collected daily. Any readings greater than two times the background level or 150 ug/m3 above background, whichever is lower, will prompt a work stoppage to determine the reason for the elevated dust levels. The source of the dust, if determined to be associated with the project, will be corrected before work resumes.

Following removal of cavity materials, the cavity will be inspected visually to ensure that no cavity materials are left. All floor and wall surfaces inside the work area enclosure will be HEPA-vacuumed.

The cavity material waste generated under this task will be managed as a PCB Remediation Waste with PCBs <50 ppm, as described in Section 4.2. All other interior building materials are not near or exposed to PCB-containing caulk and will be managed as general demolition debris. Tools used to remove the cavity material will either be decontaminated at the end of work or disposed of as PCB Remediation Waste. Loose wastes generated under this task shall be transported from location of generation to the waste containers/dumpsters in minimum 6-mil doubled plastic bags.

4.1.1.3 Removal of Windows and Cleaning of Removed Window Materials

Following removal of ground-level window interior side cavity materials, the windows themselves will be removed (including frames and glass). The removal will be conducted with the enclosure described in Section 4.1.2 still in place. Work will progress from the exterior, to the extent practicable.

Polyethylene sheeting will be placed below the work area on the exterior and the removed windows will be placed on this sheeting. Any power tools needed to remove the windows, such as a reciprocating saw to cut frames or bolts, will have dust collection by HEPA-equipped vacuums.

The contractor may choose to dispose of window glass and frame materials with PCB Bulk Product Waste still adhered as a unit PCB Bulk Product Waste, or with caulk material removed as a PCB Remediation Waste, in lieu of decontaminating these materials, if it is determined that this is the fastest, most cost-effective, and/or safest method. If the contractor does not choose to dispose of non-porous window frames and glass as PCB Bulk Product Waste or PCB Remediation Waste, cleaning of these components will be conducted.

The cleaning will be conducted using an appropriate solvent designed to remove PCBs, and include scrubbing with rags or abrasive pads as necessary. The specific cleaning solution/solvent will be selected by the chosen contractor in consultation with GSA. The cleaning will remove any residual PCBs that may be on the surface of the non-porous window components. The most significant cleaning will be needed on portions of the window frames beneath and immediately next to the caulk that will have been previously removed.

Work methods will be selected to contain cleaning solutions/solvents and prevent their release to the environment. This will likely include use of plastic sheeting/decontamination pads underneath all work areas.

Any cleaning solution or solvent used will be collected and stored in appropriate enclosed storage containers. The residual cleaning solution/solvent will be disposed of as PCB-contaminated liquid. Used rags/pads/brushes will be placed in containers for disposal as PCB Clean-up Waste <50 ppm. Waste management is further detailed in Section 4.2.

Confirmation wipe samples will be collected to ensure that remaining PCB concentrations on the surfaces of the window frames and glass are < 10 ug/100 cm^2. For the first five windows cleaned, one wipe sample will be collected from the glass (12 square feet) and one from the metal frame (16 linear feet). To ensure that the results are conservative, the wipe samples will be collected from areas of the metal frame and glass surfaces that were previously covered with a caulk bead. This sampling will confirm that the cleaning methods being used are sufficient to meet clean-up objectives. Once cleaning methods are proven to meet clean-up objectives, one wipe sample of each media (metal frame & glass) will be collected every fifth window. One duplicate sample will be collected for every 20 wipe samples, and one blank sample will be collected for the complete ground-level windows project. Total estimated minimum number of samples is 22.

Wipe samples will be collected in accordance with standard EPA protocols, which include using a one-time-use disposable template to outline a 100 cm^2 sample area and wiping the area one time across the full width of the sample area in each direction using a hexane-wetted gauze pad and moderate finger pressure. The gauze pads will be placed in laboratory-supplied sample jars and submitted to a laboratory for analysis of PCB Aroclors using EPA Method 8082 with extraction by EPA Method 3540C (Soxhlet).

If any of the confirmation samples has a total PCB concentration of >/= 10 ug/100 cm^2, the window represented by that confirmation sample (each window during initial cleaning activities, or every five windows thereafter) will be re-cleaned, and re-sampled to confirm that it meets clean-up objectives, or be managed as PCB Remediation Waste.

Once all window materials reach a residual PCB level of < 10 ug/100 cm^2, they will be disposed of as regular construction debris.

4.1.1.4 Cleaning of Granite Wall Surfaces

After window removal, decontamination of the polished granite wall surfaces surrounding and abutting the ground-level windows will be completed. The extent of this granite wall material was described in Section 2.2.1.

The area of the granite wall material to be decontaminated includes:

- The entire surround of each window (exterior) (estimated 16 square feet per window).

- On the back side of the granite block that forms the window surround that abuts the removed window frame (interior) (estimated 16 square feet per window).
- Windows outside perimeter of playground:
  - Ø Below the windows to the ground surface, extending to the side of each window by two feet (exterior) (average of 42 square feet per window); and
  - Ø Within two feet to each side of and above each window surround (exterior) (estimated 36 square feet per window).
- In addition, the entire wall from the ground to 8 feet above the ground inside the perimeter of playground, even when not within two feet of a window as described above (additional 300 square feet).

The two foot area around the windows was developed as a conservative distance for decontamination based upon the fact that all but one wipe sample collected immediately adjacent to the window surrounds had a PCB concentration < 10 ug/100 cm^2, and over half were <1 ug/100 cm^2.

Given that there are 26 windows in total, an estimated 3,160 square feet of granite wall surface will be decontaminated. Note that this includes windows G3 through G5, where caulk is not currently present but was present in the past and presumably contained PCBs.

The cleaning will be conducted using an appropriate solvent designed to remove PCBs, and include scrubbing with rags or abrasive pads as necessary. The specific cleaning solution/solvent will be selected by the chosen contractor in consultation with GSA. The cleaning will remove any residual PCBs that may be on the surface of the granite wall surfaces. The most intensive cleaning will be needed on portions of the granite surface beneath and immediately next to the caulk that will have been previously removed.

Work methods will be selected to contain cleaning solutions/solvents and prevent their release to the environment. This will include use of polyethylene sheeting/decontamination pads underneath all work areas on both the exterior and interior.

Any cleaning solution or solvent used will be collected and stored in appropriate enclosed storage containers. The residual cleaning solution/solvent will be disposed of as PCB-contaminated liquid. Used rags/pads/brushes will be placed in containers for disposal as PCB Clean-up Waste <50 ppm. Waste management is further detailed in Section 4.2.

Confirmation wipe samples will be collected to ensure that remaining PCB concentrations on the granite wall surfaces are <10 ug/100 cm^2 with a more conservative goal of 1 ug/100 cm^2 within the playground area. Wipe samples will be collected and analyzed as described in Section 4.1.1.4.

One wipe sample will be collected at each window. An additional 4 samples will be collected beneath the windows in the playground area. To ensure that the results are conservative, the wipe samples will be collected from an area of the granite surface that was previously covered with a caulk bead. This sampling will confirm that the cleaning methods being used are sufficient to meet clean-up objectives. Note that almost all samples already collected on the granite wall surface forming the flat façade of the building showed PCB concentrations below the 10 ug/100 cm^2 clean-up objective. One duplicate sample will be collected for every 20 wipe samples, and one blank sample will be collected for the complete ground-level windows project. Total estimated minimum number of samples is 32.

If any of the confirmation samples has a total PCB concentration of > 10 ug/100 cm^2 (>1 ug/100 cm^2 in the playground area) the area represented by that confirmation sample will be re-cleaned, and re-sampled.

4.1.1.5 Indoor Air Sampling

Following the completion of the ground-level window remedial activities described above, GSA will conduct indoor air sampling of the child-care center to evaluate whether the remediation and other mitigation efforts have reduced concentrations of PCBs in indoor air. The sampling will mimic the sampling proposed in the original Notification, except that the samples will be collected over an approximately eight-hour time period to replicate the period a typical building occupant is present, and will be analyzed to ensure a minimum detection limit of 0.05 ug/m^3 is achieved. At least two samples will be collected from different areas of the child-care center.

4.1.2 Courtyard Windows

This section outlines remedial procedures for the courtyard window areas.

4.1.2.1 Caulk Removal

All caulk around the exterior edges (and interior in some cases) of the specified courtyard windows will be removed. The extent of the caulk/sealants is described in Sections 2 and 3. Estimated quantities of caulk/sealant are included in ***Table 1***. An attempt will be made to remove the caulk/sealant prior to removal of the window frames/glass.

Methods will be used to contain caulk/sealant material within the work area. Prior to removal of caulk/sealants, occupied areas abutting the windows to be dismantled will be vacated. An enclosure will be installed around the work area, including polyethylene sheeting below the work area to contain all materials that are removed. If any activities (such as grinding) that have the potential to generate dust are conducted on PCB-impacted materials, equipment will be shrouded, with dust collection by HEPA-equipped vacuums.

Note that some of the caulk/sealant materials are considered Asbestos-Containing Material (ACM) and will be removed in accordance with Massachusetts asbestos regulations.

Various work methods, including worker PPE, ambient dust monitoring, visual inspection of surfaces after removal of caulk, cleaning of building surfaces within the enclosure following completion of remedial work, and tool decontamination, will be conducted as described in the original Notification.

Caulk/sealant waste generated will be managed as a PCB Bulk Product Waste, as described in Section 4.2. Some of the caulk materials will also be managed as an asbestos waste. Loose wastes generated under this task shall be transported from location of generation to the waste containers/dumpsters in minimum 6-mil doubled plastic bags.

4.1.2.2 Removal of Windows and Cleaning of Window Materials

Following removal of caulk/sealant materials, the windows themselves will be removed (including frames and glass). The removal will be conducted with the enclosure described in Section 4.1.2.1 still in place. Work will progress from the exterior, to the extent practicable.

The contractor may choose to dispose of window glass and frame materials with PCB Bulk Product Waste still adhered as a unit PCB Bulk Product Waste, or with caulk material removed as a PCB Remediation Waste, in lieu of decontaminating these materials, if it is determined that this is the fastest, most cost-effective, and/or safest method. If the contractor does not choose to dispose of non-porous metal and glass window materials as a PCB waste, cleaning these components will be conducted as was outlined for curtain wall materials in Section 4.1.2 of the original Notification.

Note that all but two wipe samples collected to-date on courtyard window components had concentrations below the TSCA clean-up criteria of 10 ug/100 cm^2, and in most cases far below that criteria. Therefore, significant cleaning will only be needed on portions of the non-porous surfaces beneath and immediately next to caulk/sealant materials.

Polyethylene sheeting will be placed below the work area on the exterior and the removed windows will be placed on this sheeting. Any power tools needed to remove the windows, such as a reciprocating saw to cut frames or bolts, will have dust collection by HEPA-equipped vacuums.

Confirmation wipe samples will be collected to ensure that remaining PCB concentrations on the surfaces of the non-porous window materials are < 10 ug/100 cm^2. The samples will be collected and analyzed as described for curtain wall materials in Section 4.1.2 of the original Notification. To ensure that the results are conservative, the wipe samples will be collected from the areas of the metal frame and glass surfaces that were previously covered with a caulk bead.

Confirmatory samples will be collected at the following frequencies; see ***Figure 6*** for visual identification of the described areas:

- For the first five 1st-floor windows cleaned, one wipe sample will be collected from the glass (48 square feet) and one from the metal frame (28 linear feet). This sampling will confirm that the cleaning methods being used are sufficient to meet clean-up objectives. Once cleaning methods are proven to meet clean-up objectives, one wipe sample of each media (metal frame & glass) will be collected every fifth window.
- For both 1st-floor doorways, one wipe sample will be collected from the glass (46 square feet) and one from the metal frame (46 linear feet).
- For each of the five east elevation tall windows, one wipe sample will be collected from the glass (average 144 square feet) and one from the metal frame (average 50 linear feet).
- For the first five 4th-floor windows cleaned, one wipe sample will be collected from the glass (28 square feet) and one from the metal frame (15 linear feet). This sampling will confirm that the cleaning methods being used are sufficient to meet clean-up objectives. Once cleaning methods are proven to meet clean-up objectives, one wipe sample of each media (metal frame & glass) will be collected every fifth window.

One duplicate sample will be collected for every 20 wipe samples, and one blank sample will be collected for the complete courtyard project. Total estimated minimum number of samples is 47.

If any of the confirmation samples has a total PCB concentration of >/= 10 ug/100 cm^2, the glass/frame areas represented by that confirmation sample will be re-cleaned, and re-sampled to confirm that it meets clean-up objectives, or be managed as PCB Remediation Waste.

Once all window non-porous materials reach a residual PCB level of < 10 ug/100 cm^2, they will be disposed of as regular construction debris.

4.1.2.3 Cleaning of Remaining Window Frames

The portion of the non-porous metal window frames underlying interior glazing sealant and trim sealant will remain after the 1st-floor inset windows are removed. These frames will not be removed from the building, and will be covered with a new piece of trim.

The surfaces of the frames underlying and within one inch of the glazing sealant and trim sealant will be decontaminated using the same procedures described in Section 4.1.2.2.

Confirmatory samples will be collected at a frequency of 1 sample per window (28 linear feet). One duplicate sample will be collected for every 20 wipe samples, and one blank sample will be collected for the complete courtyard project. Total estimated number of samples is 31. If any of the confirmation

samples has a total PCB concentration of >/= 10 ug/100 cm^2, the window frame represented by that confirmation sample will be re-cleaned, and re-sampled to confirm that it meets clean-up objectives.

4.1.2.4 Cleaning of Remaining Concrete Wall Surfaces

The exterior concrete wall adjacent to the PCB-containing caulk/sealant has been shown to contain PCB concentrations up to 41 ppm. To remove residual caulk particles from the concrete after the curtain wall has been dismantled, the concrete will be cleaned as was outlined for concrete adjacent to curtain wall caulk materials in Section 4.1.3 of the original Notification to achieve a final residual PCB concentration in concrete of </= 25 ppm consistent with a low occupancy area.

Cleaning of the concrete wall surface beneath and, as a conservative measure, at least six inches on either side of the caulk beads will be conducted. The cleaning will be conducted using cleaning solution/solvents, or physical removal tools such as a wire brush, buffer, or grinder to physically remove a thin layer of concrete (estimated < 1/8-inch). The specific cleaning method will be selected by the chosen contractor in consultation with GSA, after initial field testing for ease of implementation and effectiveness.

Various work methods will be conducted as described in the original Notification. Waste management is further detailed in Section 4.2.

The target PCB concentration for remaining PCB Remediation Waste is </= 25 ppm. Confirmation bulk samples will be collected to ensure that post-remedial residual PCB concentrations in concrete wall materials meet this objective. The sampling will be conducted in general accordance with 40 CFR 761.280 [Subpart O]. Sampling and analytical methods will follow those outlined in Section 4.1.3 of the original Notification.

Sampling frequency will be as follows:

- For 1st-floor windows: NA (no impacted concrete).
- For both 1st-floor doorways, one sample will be collected (27 linear feet; maximum 14 square feet assuming that concrete to a distance of 6 inches will need to be decontaminated).
- For each of the five east elevation tall windows, one sample will be collected (average 50 linear feet; maximum 25 square feet).
- For the 4th-floor windows, one sample will be collected from beneath the caulk joint on each elevation (average of 93 linear feet, maximum 16 square feet assuming that concrete to a distance of 1 inch will need to be decontaminated).

One duplicate sample will be collected for every 20 concrete samples. Total estimated minimum number of samples is 12.

If any of the confirmation samples has a total PCB concentration of > 25 ppm, additional cleaning of concrete will be conducted of the strip of concrete represented by that sample. Following re-cleaning, another confirmation sample will be collected and analyzed.

GSA has prepared a back-up plan should certain confirmatory samples from the location of the current caulk bead contain concentrations of PCBs greater than 25 ppm that cannot be easily reduced to <25 ppm without removal of concrete material that would affect the structural integrity or aesthetics of the wall. If this occurs, GSA plans to apply a metal trim piece to the edge of the window frame to cover the area of concrete impacted to a distance of one inch beyond the edge of the current caulk bead. We believe that areas of the concrete at and greater than one inch from the caulk bead will be easily cleaned to <25 ppm, given concentrations observed to date in the courtyard. In this situation, additional concrete samples would be collected at a distance of one inch from the current caulk bead to confirm that concrete at this distance does not contain PCBs >25 ppm.

4.1.2.5 Removal of Pavers & Threshold

At the two doorways that are being replaced on the 1st floor, gray stone or masonry pavers are located within two feet of a caulk joint. Based on their limited quantity, these pavers are assumed to contain PCBs > 50 ppm, and will be removed and disposed as PCB Remediation Waste > 50 ppm. Red pavers located beyond the gray pavers were sampled and found to contain PCBs <1 ppm.

In addition, a metal threshold is located beneath the doors in the two doorways. The edges of the thresholds touch some caulk material, and the thresholds are assumed to have surficial PCBs > 10 ug/100 cm^2. Threshold will be removed and disposed as PCB Remediation Waste > 50 ppm. Also remove the metal threshold beneath the door and dispose as PCB Remediation Waste.

4.1.2.6 Indoor Air Sampling

Following the completion of remedial activities described above, GSA will conduct indoor air sampling of two locations adjacent to courtyard windows to evaluate whether the remediation has reduced concentrations of PCBs in indoor air. The sampling will mimic the sampling proposed in the original Notification, except that the samples will be collected over an approximately eight-hour time period and will be analyzed to ensure a minimum detection limit of 0.05 ug/m^3 is achieved. The locations will both be on the 1st floor in hallways adjacent to the courtyard.

4.1.3 Deed Notice

A deed notice will be prepared for exterior curtain wall areas of the Site building, as outlined under the original Notification. The PCB remedial work outlined in this

Modification will include clean-up to TSCA criteria applicable to a high occupancy area for the ground-level window areas. Therefore, no deed notice provisions for the areas of the ground-level windows will be necessary. Clean-up of concrete wall surfaces in the courtyard will be to TSCA criteria of 25 ppm, applicable to a low occupancy area. Therefore, the deed notice already planned for the property will include provisions specific to the courtyard. These provisions will include a provision banning smoking in the courtyard. The deed notice will be drafted and submitted as detailed in the original Notification.

4.2 WASTE MANAGEMENT

The types of waste that will be generated during the remedial work described in Section 4.1 include PCB-containing caulk (PCB Bulk Product Waste), potentially metal door thresholds, metal window frames, and glass (PCB Bulk Product Waste if caulk/sealant is still adhered, PCB Remediation Waste otherwise), limited amounts of mortar and insulation materials, stone/masonry pavers (PCB Remediation Waste), cleaning solution, used absorbents and rags, PPE, and containment materials (PCB Remediation Wastes).

PCB Bulk Product Waste and PCB Remediation Waste will be stored in appropriate containers, covered and secured in accordance with 40 CFR 761.65. PCB waste containers will be placed in a secure location approved by GSA and will be placarded on all sides as containing PCB waste with markings meeting the requirements of 40 CFR 761.40 and 761.45, as required.

Any liquids generated during this program will be managed and transported off-site for decontamination to meet the requirements in 40 CFR 761.61(a)(4)(iv).

PCB Cleanup Waste (e.g. PPE, non-decontaminated tools) will be managed in accordance with 40 CFR 40.761.61(a)(5)(v). Because EPA has interpreted that containment material is not a "Cleanup Waste" as defined in 40 CFR 40.761.61(a)(5)(v), containment materials will be managed as a PCB Remediation Waste in accordance with 40 CFR 761.61.

Disposal of all waste will be in accordance with applicable state and federal regulations and in accordance with 40 CFR 761.61 and 761.62. The waste will be shipped by a licensed transporter and sent to licensed facilities that will receive and dispose PCB Bulk Product Waste and PCB Remediation Waste, in accordance with EPA regulations. The PCB Bulk Product Waste and PCB Remediation Waste >/= 50 ppm will be shipped under a Uniform Hazardous Waste Manifest. If PCB Bulk Product Wastes are to be managed at an out of state RCRA facility in accordance with TSCA, exemption to the Massachusetts Hazardous Waste Regulations requirement to use a Uniform Hazardous Waste Manifest may be requested from the Massachusetts Department of Environmental Protection. Any PCB Remediation Waste < 50 ppm that is generated (PPE, containment materials, tools, etc.) may be shipped under a Non-Hazardous Waste Manifest instead of a hazardous waste manifest. Copies of all bills of landing, waste shipment records, and certificates of disposal will be provided to GSA as proof of proper disposal.

4.3 SCHEDULE FOR IMPLEMENTATION

In accordance with the TSCA regulations at 40 CFR 761.61(a)(3), GSA plans to begin implementation of the plan outlined in this Modification as soon as approval is received from the U.S. EPA.

GSA estimates that the work outlined in this Modification will take approximately two months.

4.4 STATE OR LOCAL PERMITS AND APPROVALS

State and/or local permits and/or inspections will not be necessary specifically for PCB abatement activities. Permits will be obtained as required for any renovation and asbestos abatement projects. Per 40 CFR 761.61(a)(3)(i), the director of the Massachusetts DEP and the executive director of the Boston Public Health Commission have been copied on this Modification.

Figures

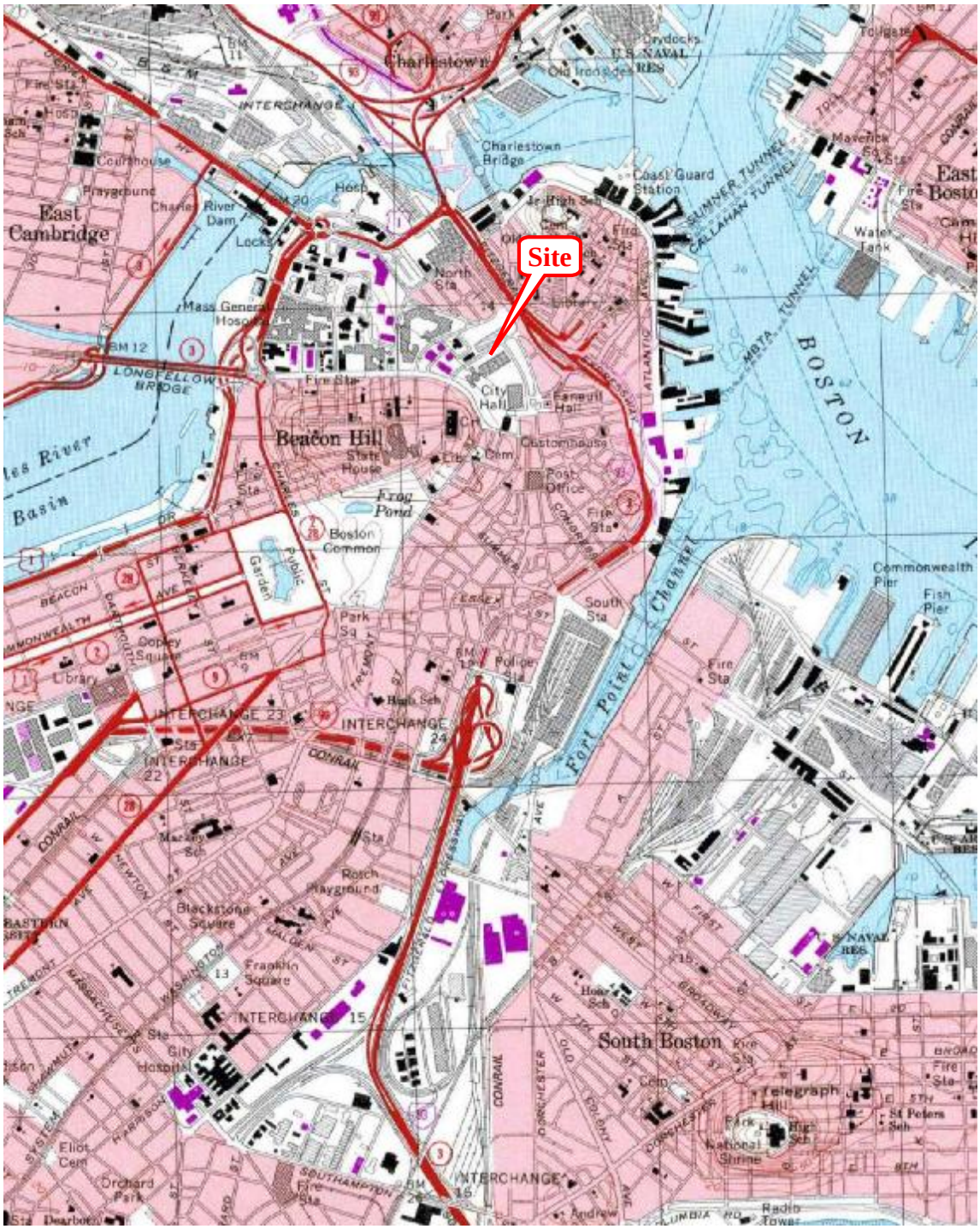


Figure 1: Site Vicinity Map

Source:
Environmental Data Resources Inc.
USGS 7.5 Minute
Boston South, MA Quadrangle Map
Scale: 1:25,000
(1979)

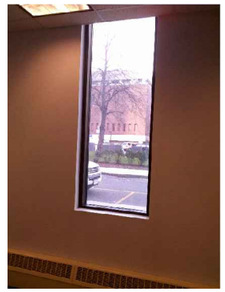
ATC ASSOCIATES INC

JFK Federal Building
New Sudbury Street
Boston, Massachusetts

DETAIL: TYPICAL
GROUND-LEVEL WINDOWS

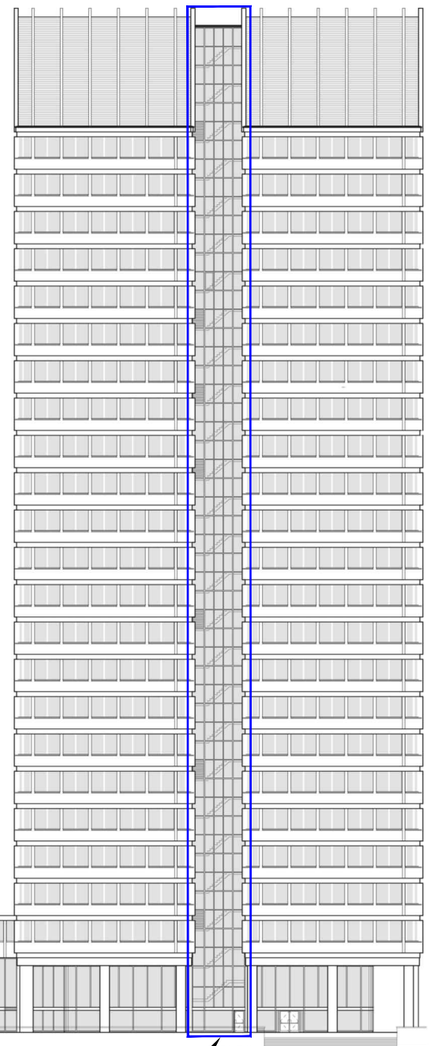
DETAIL: TYPICAL
WINDOW CLOSE-UP

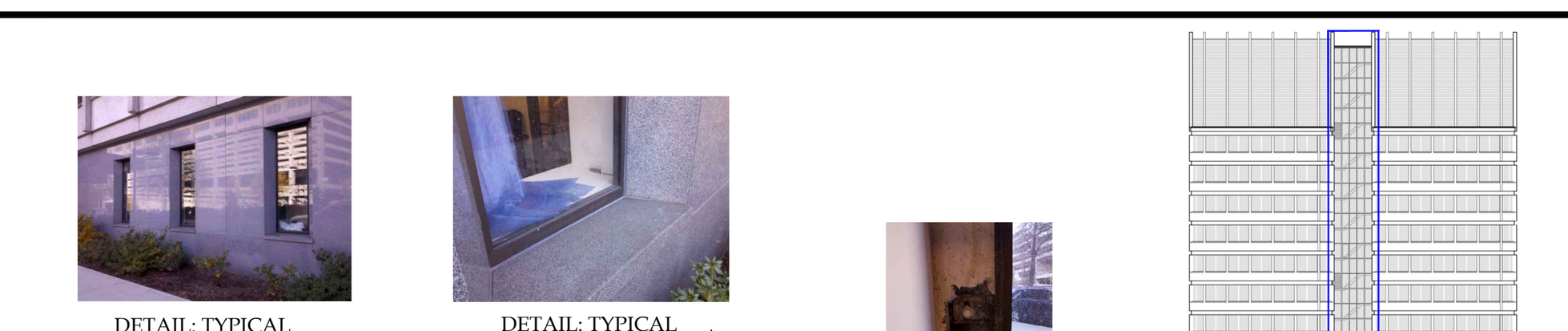
DETAIL: MORTAR IN
WINDOW G1 CAVITY



DETAIL: TYPICAL INTERIOR
WINDOW FINISHES

DETAIL: TYPICAL EXTERIOR
CAULK AND WIPE SAMPLE LOCATIONS





NOTE: WINDOWS
G18-G26 ON EAST
ELEVATION OF
BUILDING

WINDOW G17

GROUND-LEVEL
WINDOW PROJECT AREA

WINDOW G1

CURTAIN WALL PROJECT AREAS

LEGEND:

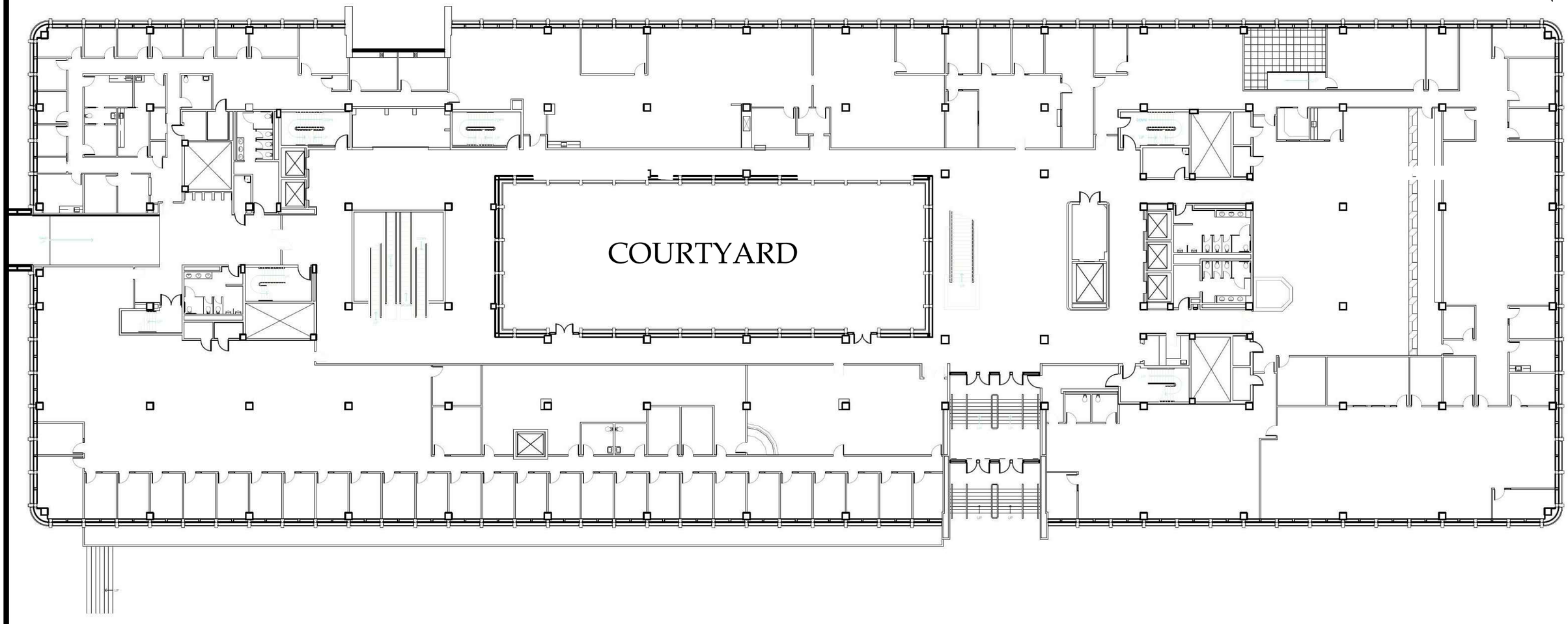
- EXTERIOR GROUND-LEVEL WINDOW SAMPLE SET (SEE DETAIL)
- LOCATION OF INTERIOR MORTAR SAMPLE SET (SEE DETAIL)

GROUND-LEVEL WINDOW LOCATIONS
NORTH ELEVATION

JFK FEDERAL BUILDING
BOSTON, MASSACHUSETTS

PROJECT NUMBER: 060.41885.0001	FIGURE NUMBER: 2
SCALE: NTS	CHECKED BY: DW
DRAWN BY: JAB	DATE: 2/21/2012
DRAWING FILE: JFK FEDERAL BUILDING	

ATC ASSOCIATES INC.
600 West Cummings Park, Suite 5450
Woburn, Massachusetts 01801-6350
Tel.(781)932-9400 Fax.(781)932-6211



B
27-2149

1ST FLOOR REFERENCE PLAN

SCALE 1/16"=1'-0"

0 20 40 80

SCALE FEET

LEGEND

SOURCE: "GROUND AND FIRST FLOOR REF. PLANS. DRAWING NUMBER 27-2169,SHEET 27 OF 64

LOW-RISE FIRST FLOOR
COURTYARD LOCATIONS

JFK FEDERAL BUILDING
BOSTON, MASSACHUSETTS

PROJECT NUMBER: 060.41885.1001	FIGURE NUMBER: 3
SCALE: NTS	CHECKED BY: DPW
DRAWN BY: CA	DATE: 4/10/2012
DRAWING FILE: Clients-Projects\A-F\APSI\Figures	

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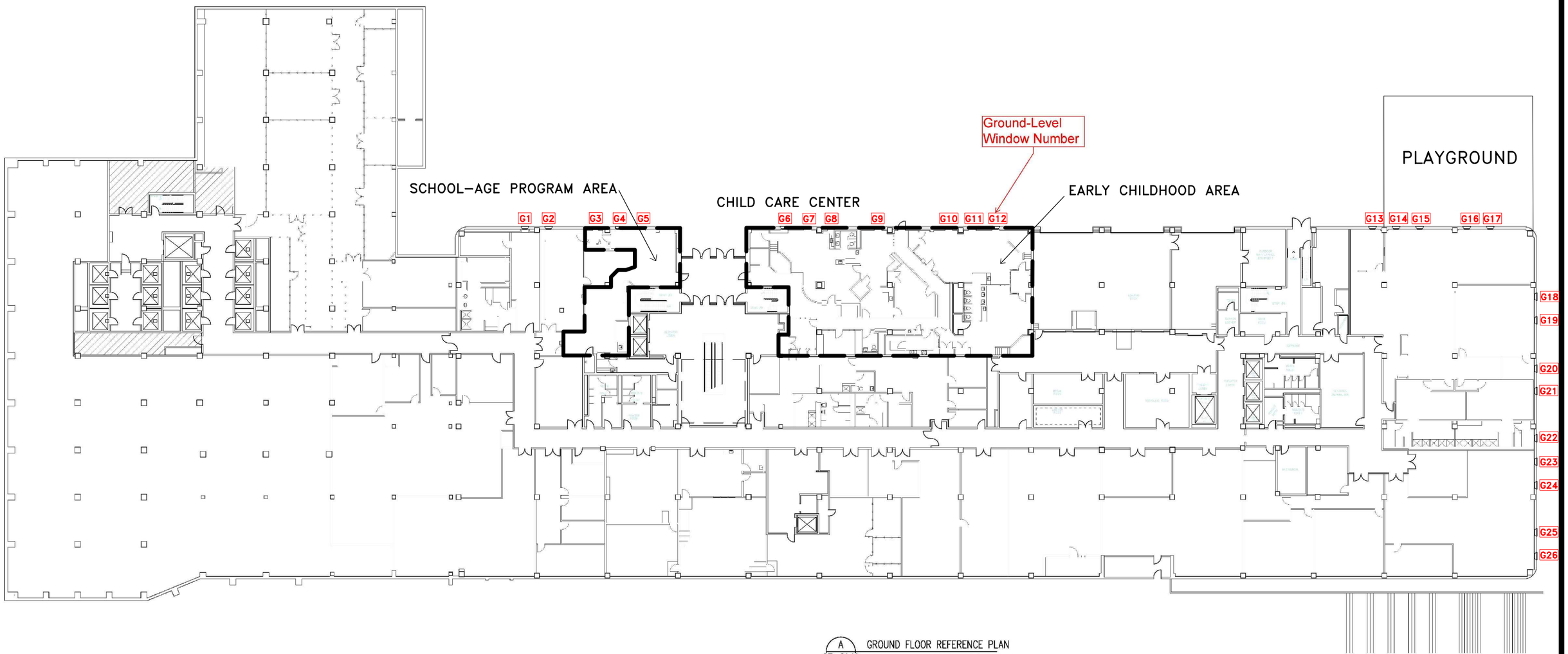

A 27–2149 GROUND FLOOR REFERENCE PLAN
SCALE 1/16"=1'–0"

LEGEND

BOUNDARIES OF CHILD–CARE CENTER

SOURCE: "GROUND AND FIRST FLOOR REF. PLANS. DRAWING NUMBER 27–2169,SHEET 27 OF 64

LOW–RISE GROUND–LEVEL WINDOW LOCATIONS

JFK FEDERAL BUILDING
BOSTON, MASSACHUSETTS

PROJECT NUMBER: 060.41885.1001	FIGURE NUMBER: 4
SCALE: NTS	CHECKED BY: DPW
DRAWN BY: JAB	DATE: 3/19/2012
DRAWING FILE: Clients–Projects\A–F\APSI\Figures	

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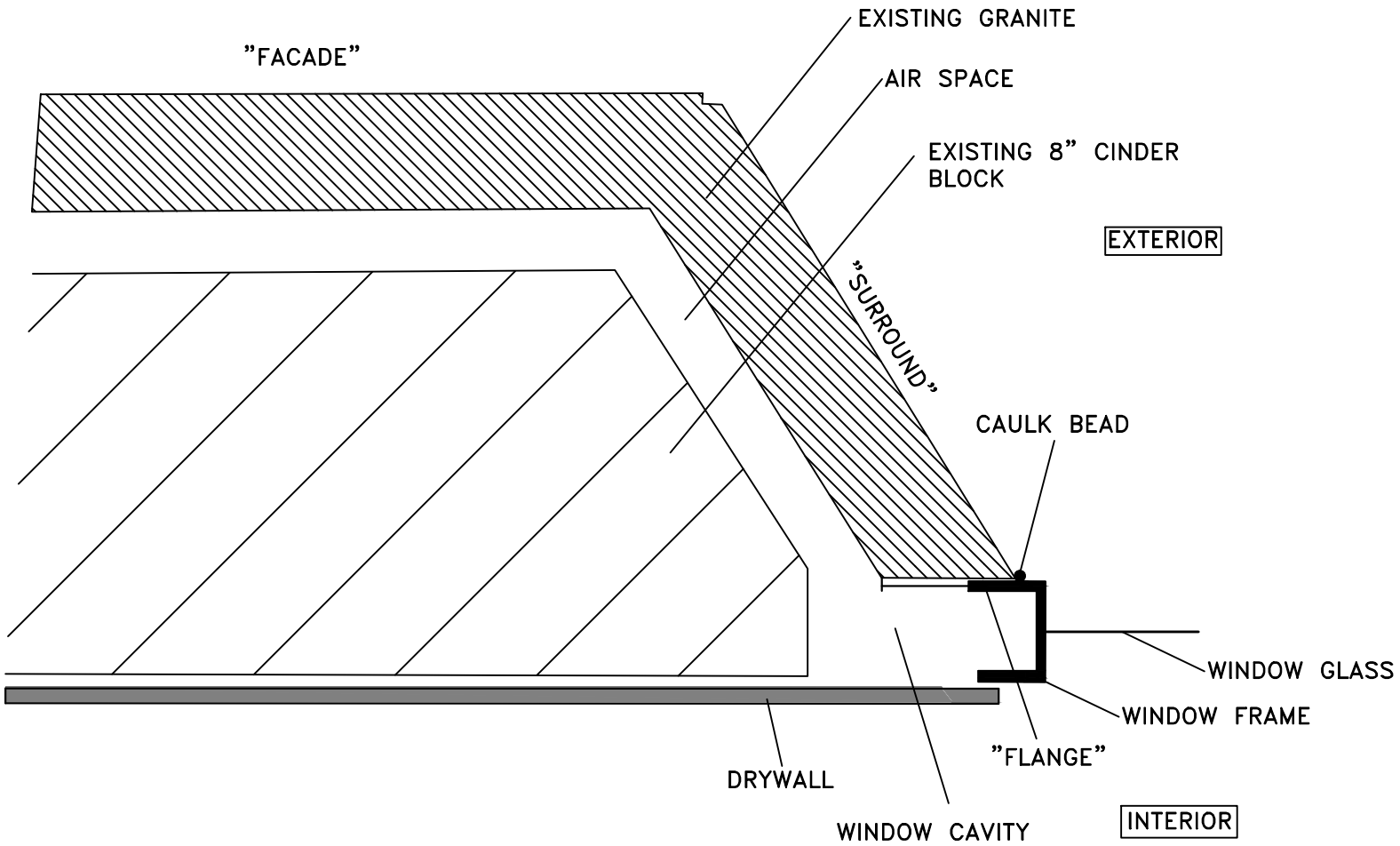

CROSS-SECTIONAL DIAGRAM OF GROUND-LEVEL WINDOWS

JFK FEDERAL BUILDING
BOSTON, MASSACHUSETTS

PROJECT NUMBER: 60.41885.0001	FIGURE NUMBER: 5
SCALE: NTS	CHECKED BY: DW
DRAWN BY: JAB	DATE: 2/20/2012
DRAWING FILE:	

VATC ASSOCIATES INC.
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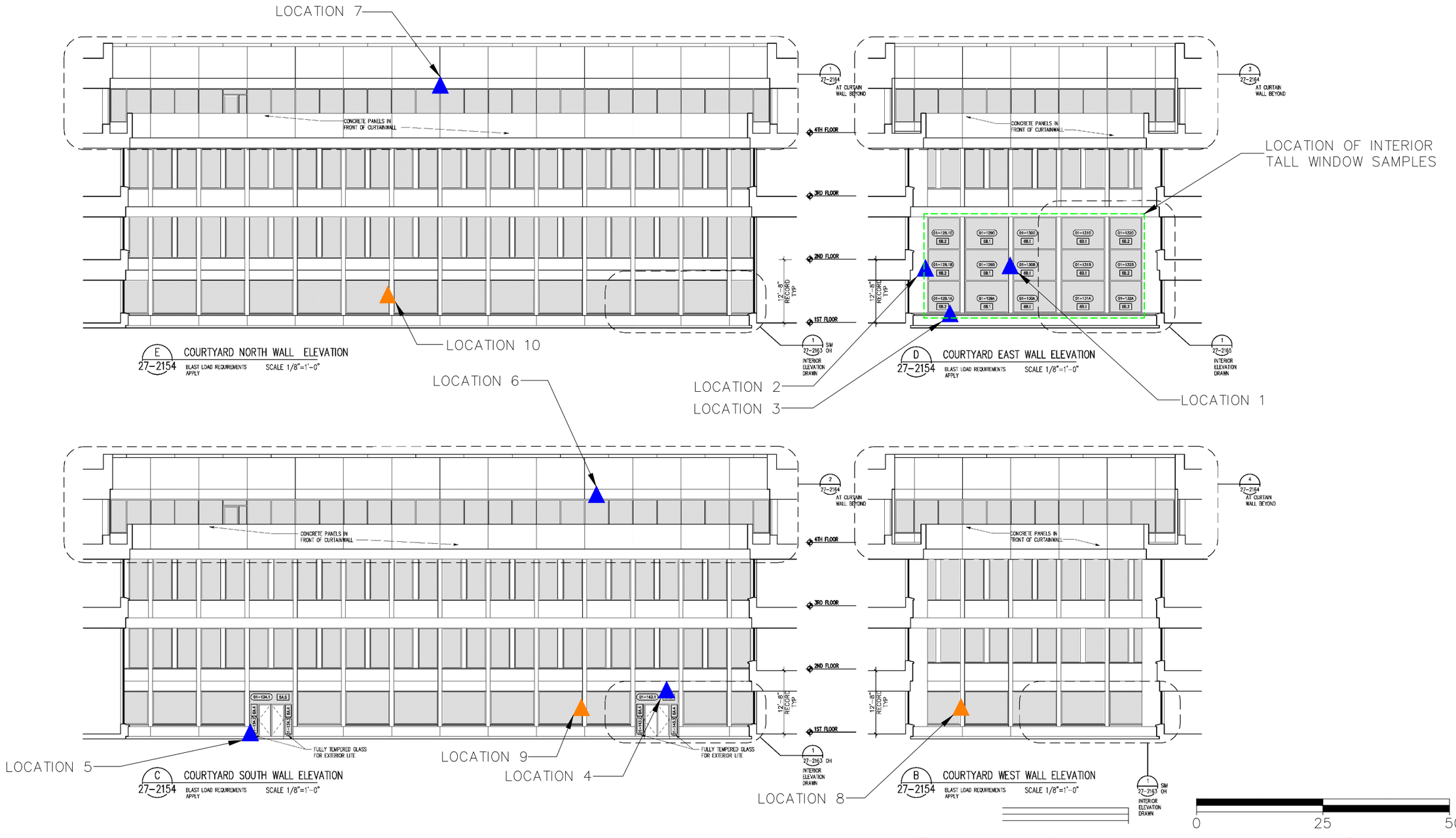

LEGEND:

- EXTERIOR SAMPLE SET LOCATION
- INTERIOR EAST ELEVATION TALL WINDOW SAMPLES
- LOCATION OF INTERIOR INSET WINDOW CAULK/SEALANT SAMPLES

SAMPLE LOCATIONS

COURTYARD

JFK FEDERAL BUILDING
BOSTON, MASSACHUSETTS

PROJECT NUMBER: 060.41885.0001	FIGURE NUMBER: 6
SCALE: NTS	CHECKED BY: DPW
DRAWN BY: JAB	DATE: 3/21/2012
DRAWING FILE: \Clients - Projects\A - F\APSI\Figures	

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Tables

TABLE 3
PCB Analytical Results: Bulk Samples (Rubber, Caulk, etc.)
Ground-Level Windows
JFK Federal Building
Boston, Massachusetts

						PCB Aroclor Results (by EPA Method 8082)												
Sample ID	Window Number	Material	Location	Depth (inches)	Sample Date	1016 mg/kg	1221 mg/kg	1232 mg/kg	1242 mg/kg	1248 mg/kg	1254 mg/kg	1260 mg/kg	1262 mg/kg	1268 mg/kg	Total PCBs mg/kg	QA/QC Review (see footnotes)	ACM?	PCB Waste Determination
Caulk Samples																		
G2-Caulk-Right	G2	Window Frame Caulk	Side of Window	NA	12/13/2011	<19,000	<19,000	<19,000	<19,000	<19,000	**230,000**	<19,000	<19,000	<19,000	**230,000**	(A)	No	Bulk Product Waste
G6-Caulk-Bottom	G6	Window Frame Caulk	Bottom of Window	NA	12/13/2011	<18,000	<18,000	<18,000	<18,000	<18,000	**400,000**	<18,000	<18,000	<18,000	**400,000**	(A)	No	Bulk Product Waste
G7-Caulk-Left	G7	Window Frame Caulk	Side of Window	NA	12/13/2011	<20,000	<20,000	<20,000	<20,000	<20,000	**300,000**	<20,000	<20,000	<20,000	**300,000**	(A)	No	Bulk Product Waste
G8-Caulk-Left	G8	Window Frame Caulk	Side of Window	NA	12/13/2011	<18,000	<18,000	<18,000	<18,000	<18,000	**410,000**	<18,000	<18,000	<18,000	**410,000**	(A)	No	Bulk Product Waste
G9-Caulk-Right	G9	Window Frame Caulk	Side of Window	NA	12/13/2011	<19,000	<19,000	<19,000	<19,000	<19,000	**410,000**	<19,000	<19,000	<19,000	**410,000**	(A)	No	Bulk Product Waste
G9-Caulk-Right(2) [Dupe]	G9	Window Frame Caulk	Side of Window	NA	12/13/2011	<19,000	<19,000	<19,000	<19,000	<19,000	**410,000**	<19,000	<19,000	<19,000	**410,000**	(A)	No	Bulk Product Waste
G13-Caulk-Left	G13	Window Frame Caulk	Side of Window	NA	12/13/2011	<17,000	<17,000	<17,000	<17,000	<17,000	**350,000**	<17,000	<17,000	<17,000	**350,000**	(A)	No	Bulk Product Waste
G10-Caulk-Left	G10	Window Frame Caulk	Side of Window	NA	12/13/2011	<19,000	<19,000	<19,000	<19,000	<19,000	**220,000**	<19,000	<19,000	<19,000	**220,000**	(A)	No	Bulk Product Waste
G11-Caulk-Bottom	G11	Window Frame Caulk	Bottom of Window	NA	12/13/2011	<19,000	<19,000	<19,000	<19,000	<19,000	**300,000**	<19,000	<19,000	<19,000	**300,000**	(A)	No	Bulk Product Waste
G12-Caulk-Left	G12	Window Frame Caulk	Side of Window	NA	12/13/2011	<18,000	<18,000	<18,000	<18,000	<18,000	**250,000**	<18,000	<18,000	<18,000	**250,000**	(A)	No	Bulk Product Waste
Mortar Samples																		
G1-Mortar-Behind Flange	G1	Window Void Mortar	Int. Behind Frame	NA	12/13/2011	<1.9	<1.9	<1.9	<1.9	<1.9	**7.7**	<1.9	<1.9	<1.9	**7.7**	(A)	NA	Remediation Waste
G1-Mortar-1in	G1	Window Void Mortar	Int. 1" from Flange	NA	12/13/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**17**	<5.0	<5.0	<5.0	**17**	(A)	NA	Remediation Waste
G1-Mortar-3in	G1	Window Void Mortar	Int. 3" from Flange	NA	12/13/2011	<2.0	<2.0	<2.0	<2.0	<2.0	**7.1**	<2.0	<2.0	<2.0	**7.1**	(A)	NA	Remediation Waste
G1-Mortar-3in(2) [Dupe]	G1	Window Void Mortar	Int. 3" from Flange	NA	12/13/2011	<0.10	<0.10	<0.10	<0.10	<0.10	**0.86**	<0.10	<0.10	<0.10	**0.86**	(A)	NA	Remediation Waste

NOTES:
Concentrations presented in milligrams per kilogram (mg/kg), or parts per million
ND = Not detected
(A) = See Text
Bolded indicates concentration above laboratory method detection limit
Yellow Shading = Value above 50 mg/kg.

TABLE 5
PCB Analytical Results: Wipe Samples
Ground-Level Windows
JFK Federal Building
Boston, Massachusetts

Sample ID	Date	Material Wiped	Location	Window Number	PCB Aroclor Results (by EPA Method 8082) ug/100 cm^2 1016	1221	1232	1242	1248	1254	1260	1262	1268	Total PCBs	QA/QC Review (see footnotes)	Decon Required?
Façade Wipe Samples																
G2-Wipe-Side	12/13/2011	Granite	Façade on Side of Window	G2	<0.20	<0.20	<0.20	<0.20	<0.20	**1.7**	<0.20	<0.20	<0.20	**1.7**	(A)	Yes
G2-Wipe-Side(2) [Dupe]	12/13/2011	Granite	Façade on Side of Window	G2	<0.20	<0.20	<0.20	<0.20	<0.20	**0.65**	<0.20	<0.20	<0.20	**0.65**	(A)	Yes
G2-Wipe-Bottom	12/13/2011	Granite	Façade on Bottom of Window	G2	<2.0	<2.0	<2.0	<2.0	<2.0	**16**	<2.0	<2.0	<2.0	**16**	(A)	Yes
G6-Wipe-Side	12/13/2011	Granite	Façade on Side of Window	G6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
G6-Wipe-Bottom	12/13/2011	Granite	Façade on Bottom of Window	G6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
G9-Wipe-Side	12/13/2011	Granite	Façade on Side of Window	G9	<0.20	<0.20	<0.20	<0.20	<0.20	**2.2**	<0.20	<0.20	<0.20	**2.2**	(A)	Yes
G9-Wipe-Bottom	12/13/2011	Granite	Façade on Bottom of Window	G9	<1.0	<1.0	<1.0	<1.0	<1.0	**8.2**	<1.0	<1.0	<1.0	**8.2**	(A)	Yes
G13-Wipe-Side	12/13/2011	Granite	Façade on Side of Window	G13	<0.20	<0.20	<0.20	<0.20	<0.20	**0.21**	<0.20	<0.20	<0.20	**0.21**	(A)	Yes
G13-Wipe-Bottom	12/13/2011	Granite	Façade on Bottom of Window	G13	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes

NOTES:
Concentrations presented in micrograms per 100 square centimeters (ug/100cm2)
(A) = See report text
Bolded indicates concentration above laboratory method detection limit
Yellow Shading = Value above 10 ug/100cm2.
ND = Not detected

TABLE 6
PCB Analytical Results: Bulk Samples (Caulk, Concrete, etc.)
Curtain Wall Replacement Project - Courtyard
JFK Federal Building
Boston, Massachusetts

						PCB Aroclor Results (by EPA Method 8082)												
Sample ID	Figure Location Number	Material Type - Number and Name	Location / Function	Depth (inches)	Sample Date	1016 mg/kg	1221 mg/kg	1232 mg/kg	1242 mg/kg	1248 mg/kg	1254 mg/kg	1260 mg/kg	1262 mg/kg	1268 mg/kg	Total PCBs mg/kg	QA/QC Review (see footnotes)	ACM?	PCB Waste Determination
Caulk Samples																		
Caulk-F/W-#1	1	#1 - Frame-Concrete Caulk	Exterior Frame/Concrete	NA	2/2/2012	<980	<980	<980	<980	<980	**16,000**	<980	<980	<980	**16,000**	(A)	No	Bulk Product Waste
Caulk-F/W-#4	4			NA	2/2/2012	<460	<460	<460	<460	<460	**8,700**	<460	<460	<460	**8,700**	(A)	No	Bulk Product Waste
Caulk-F/W-#5	5			NA	2/2/2012	<960	<960	<960	<960	<960	**23,000**	<960	<960	<960	**23,000**	(A)	No	Bulk Product Waste
Caulk-F/W-#6	6			NA	2/1/2012	<200	<200	<200	<200	<200	**3,200**	<200	<200	<200	**3,200**	(A)	No	Bulk Product Waste
Caulk-F/W-#6A [Dupe]	6			NA	2/1/2012	<92	<92	<92	<92	<92	**1,400**	<92	<92	<92	**1,400**	(A)	No	Bulk Product Waste
Caulk-F/W-#7	7			NA	2/1/2012	<20	<20	<20	<20	<20	**250**	<20	<20	<20	**250**	(A)	No	Bulk Product Waste
Caulk-F/G-#1	1	#2 - Glazing (Glass) Sealant	Exterior Frame/Glass	NA	2/2/2012	<9.6	<9.6	<9.6	<9.6	<9.6	**210**	<9.6	<9.6	<9.6	**210**	(A)	No	Bulk Product Waste
Caulk-F/G-#2	2			NA	2/2/2012	<46	<46	<46	<46	<46	**800**	<46	<46	<46	**800**	(A)	No	Bulk Product Waste
Caulk-F/G-#3	3			NA	2/2/2012	<400	<400	<400	<400	<400	**5,200**	<400	<400	<400	**5,200**	(A)	No	Bulk Product Waste
Caulk-F/G-#6	6			NA	2/1/2012	<9.2	<9.2	<9.2	<9.2	<9.2	**52**	<9.2	<9.2	<19,000	**52**	(A)	No	Bulk Product Waste
Caulk-F/G-#7	7			NA	2/1/2012	<9.4	<9.4	<9.4	<9.4	<9.4	**110**	<9.4	<9.4	<9.4	**110**	(A)	No	Bulk Product Waste
Caulk-F/F-#2 A	2	#3 - Frame-Frame Caulk	Exterior Frame/Frame	NA	2/2/2012	<47000	<47000	<47000	<47000	<47000	**360,000**	<47000	<47000	<47000	**360,000**	(A)	No	Bulk Product Waste
Caulk-F/F-#2 B	2			NA	2/2/2012	<49000	<49000	<49000	<49000	<49000	**370,000**	<49000	<49000	<49000	**370,000**	(A)	No	Bulk Product Waste
Caulk-F/F-#2 C	2			NA	2/2/2012	<47000	<47000	<47000	<47000	<47000	**430,000**	<47000	<47000	<47000	**430,000**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 1-#1	1/2/3	#8 - Glazing Sealant	Interior Frame/Glass	NA	2/1/2012	<9.5	<9.5	<9.5	<9.5	**43**	**37**	<9.5	<9.5	<9.5	**80**	(A)	**Yes**	Bulk Product Waste
Caulk-EW-INT-TYPE 2-#1		#8 - Glazing Sealant		NA	2/1/2012	<9.7	<9.7	<9.7	<9.7	<9.7	**32**	<9.7	<9.7	<9.7	**32**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 2-#2				NA	2/1/2012	<9.2	<9.2	<9.2	<9.2	<9.2	**20**	<9.2	<9.2	<9.2	**20**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 3-#1		#8 - Glazing Sealant		NA	2/1/2012	<3.8	<3.8	<3.8	<3.8	**16**	<3.8	<3.8	<3.8	<3.8	**16**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 3-#2				NA	2/1/2012	<0.99	<0.99	<0.99	<0.99	<0.99	**4**	<0.99	<0.99	<0.99	**4**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 4-#1		#8 - Glazing Sealant		NA	2/1/2012	<9.3	<9.3	<9.3	<9.3	<9.3	**45**	<9.3	<9.3	<9.3	**45**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 4-#2				NA	2/1/2012	<9.7	<9.7	<9.7	<9.7	**53**	**25**	<9.7	<9.7	<9.7	**78**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 5-#1		#8 - Glazing Sealant		NA	2/1/2012	<9.7	<9.7	<9.7	<9.7	**81**	**59**	<9.7	<9.7	<9.7	**140**	(A)	No	Bulk Product Waste
Caulk-EW-INT-TYPE 5-#2				NA	2/1/2012	<9.7	<9.7	<9.7	<9.7	<9.7	**39**	<9.7	<9.7	<9.7	**39**	(A)	No	Bulk Product Waste
4	8	#9 - Glazing Sealant	West Interior Inset Window	NA	1/12/2012	<200	<200	<200	<200	**3,600**	**1,000**	<200	<200	<200	**4,600**	(A)	No	Bulk Product Waste
2	9		South Interior Inset Window	NA	1/12/2012	<360	<360	<360	<360	**5,400**	**2,100**	<360	<360	<360	**7,500**	(A)	No	Bulk Product Waste
6	10		North Interior Inset Window	NA	1/12/2012	<340	<340	<340	<340	**8,300**	**3,500**	<340	<340	<340	**11,800**	(A)	No	Bulk Product Waste
5	8	#10 - Trim Sealant (Dk Gray)	West Interior Inset Window	NA	1/12/2012	<9.9	<9.9	<9.9	<9.9	**48**	<9.9	<9.9	<9.9	<9.9	**48**	(A)	No	Bulk Product Waste
1	9		South Interior Inset Window	NA	1/12/2012	<10	<10	<10	<10	**58**	<10	<10	<10	<10	**58**	(A)	No	Bulk Product Waste
7	10		North Interior Inset Window	NA	1/12/2012	<8.5	<8.5	<8.5	<8.5	**180**	<8.5	<8.5	<8.5	<8.5	**180**	(A)	No	Bulk Product Waste
3	9	#10 - Trim Sealant (Lt Gray)	South Interior Inset Window	NA	1/12/2012	<1.0	<1.0	<1.0	<1.0	**22**	**13**	<1.0	<1.0	<1.0	**35**	(A)	No	Bulk Product Waste

TABLE 6
PCB Analytical Results: Bulk Samples (Caulk, Concrete, etc.)
Curtain Wall Replacement Project - Courtyard
JFK Federal Building
Boston, Massachusetts

						PCB Aroclor Results (by EPA Method 8082)												
Sample ID	Figure Location Number	Material Type - Number and Name	Location / Function	Depth (inches)	Sample Date	1016 mg/kg	1221 mg/kg	1232 mg/kg	1242 mg/kg	1248 mg/kg	1254 mg/kg	1260 mg/kg	1262 mg/kg	1268 mg/kg	Total PCBs mg/kg	QA/QC Review (see footnotes)	ACM?	PCB Waste Determination
Concrete/Masonry Samples																		
PAV-A	4	#5 - Red Masonry Paver	1 foot from caulk bead	0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	**0.53**	<0.10	<0.10	<0.10	**0.53**	(A)	NA	Non-Regulated
PAV-B	4			0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	**0.52**	<0.10	<0.10	<0.10	**0.52**	(A)	NA	Non-Regulated
PAV-C	4			0-1/2"	2/2/2012	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	(A)	NA	Non-Regulated
Concrete-6-1in	6	#4 - Concrete Wall	1 inch from caulk bead	0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	(A)	NA	Non-Regulated
Concrete-6A-1in [Dupe]	6		1 inch from caulk bead	0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	(A)	NA	Non-Regulated
Concrete-6-6in	6		6 inches from caulk bead	0-1/2"	2/2/2012	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	(A)	NA	Non-Regulated
Concrete-6-12in	6		12 inches from caulk bead	0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	(A)	NA	Non-Regulated
Concrete-3-1in	3	#4 - Concrete Wall	1 inch from caulk bead	0-1/2"	2/2/2012	<9.1	<9.1	<9.1	<9.1	<9.1	**41**	<9.1	<9.1	<9.1	**41**	(A)	NA	Remediation Waste
Concrete-3-6in	3		6 inches from caulk bead	0-1/2"	2/2/2012	<0.095	<0.095	<0.095	<0.095	<0.095	**0.53**	<0.095	<0.095	<0.095	**0.53**	(A)	NA	Non-Regulated
Concrete-3-12in	3		12 inches from caulk bead	0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	**0.32**	<0.10	<0.10	<0.10	**0.32**	(A)	NA	Non-Regulated
Concrete-5-1in	5	#4 - Concrete Wall	1 inch from caulk bead	0-1/2"	2/2/2012	<10	<10	<10	<10	<10	**31**	<10	<10	<10	**31**	(A)	NA	Remediation Waste
Concrete-5-6in	5		6 inches from caulk bead	0-1/2"	2/2/2012	<0.10	<0.10	<0.10	<0.10	<0.10	**0.37**	<0.10	<0.10	<0.10	**0.37**	(A)	NA	Non-Regulated
Concrete-5-12in	5		12 inches from caulk bead	0-1/2"	2/2/2012	<0.095	<0.095	<0.095	<0.095	<0.095	**0.58**	<0.095	<0.095	<0.095	**0.58**	(A)	NA	Non-Regulated

NOTES:
Concentrations presented in milligrams per kilogram (mg/kg), or parts per million
ND = Not detected
(A) = See Text
Bolded indicates concentration above laboratory method detection limit
Yellow Shading = Value above 50 mg/kg.

TABLE 8
PCB Analytical Results: Wipe Samples
Curtain Wall Replacement Project - Courtyard
JFK Federal Building
Boston, Massachusetts

Sample ID	Date	Material Wiped	Location	Courtyard Location Number	PCB Aroclor Results (by EPA Method 8082) ug/100 cm^2 1016	1221	1232	1242	1248	1254	1260	1262	1268	Total PCBs	QA/QC Review (see footnotes)	Decon Required?
Glass Wipe Samples																
Wipe-Glass-#1	2/2/2012	Glass	Adjacent to window frame	1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
Wipe-Glass-#2	2/2/2012	Glass	Adjacent to window frame	2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
Wipe-Glass-#3	2/2/2012	Glass	Adjacent to window frame	3	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
Wipe-Glass-#4	2/2/2012	Glass	Adjacent to window frame	4	<0.20	<0.20	<0.20	<0.20	<0.20	**0.33**	<0.20	<0.20	<0.20	**0.33**	(A)	Yes
Wipe-Glass-#5	2/2/2012	Glass	Adjacent to window frame	5	<0.20	<0.20	<0.20	<0.20	<0.20	**0.35**	<0.20	<0.20	<0.20	**0.35**	(A)	Yes
Wipe-Glass-#6	2/1/2012	Glass	Adjacent to window frame	6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
Wipe-Glass-#7	2/1/2012	Glass	Adjacent to window frame	7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
Frane Wipe Samples																
Wipe-Frame-#1	2/2/2012	Frame	Adjacent to caulking sample	1	<0.20	<0.20	<0.20	<0.20	<0.20	**4.5**	<0.20	<0.20	<0.20	**4.5**	(A)	Yes
Wipe-Frame-#2	2/2/2012	Frame	Adjacent to caulking sample	2	<0.20	<0.20	<0.20	<0.20	<0.20	**1.1**	<0.20	<0.20	<0.20	**1.1**	(A)	Yes
Wipe-Frame-#3	2/2/2012	Frame	Adjacent to caulking sample	3	<0.20	<0.20	<0.20	<0.20	<0.20	**2.1**	<0.20	<0.20	<0.20	**2.1**	(A)	Yes
Wipe-Frame-#4	2/2/2012	Frame	Adjacent to caulking sample	4	<4.0	<4.0	<4.0	<4.0	<4.0	**19**	<4.0	<4.0	<4.0	**19**	(A)	Yes
Wipe-Frame-#5	2/2/2012	Frame	Adjacent to caulking sample	5	<4.0	<4.0	<4.0	<4.0	<4.0	**12**	<4.0	<4.0	<4.0	**12**	(A)	Yes
Wipe-Frame-#6	2/1/2012	Frame	Adjacent to caulking sample	6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes
Wipe-Frame-#6A (dupe)	2/1/2012	Frame	Adjacent to caulking sample	6	<0.20	<0.20	<0.20	<0.20	<0.20	**0.88**	<0.20	<0.20	<0.20	**0.88**	(A)	Yes
Wipe-Frame-#7	2/1/2012	Frame	Adjacent to caulking sample	7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	(A)	Yes

NOTES:
Concentrations presented in micrograms per 100 square centimeters (ug/100cm2)
(A) = See report text
Bolded indicates concentration above laboratory method detection limit
Yellow Shading = Value above 10 ug/100cm2.
ND = Not detected

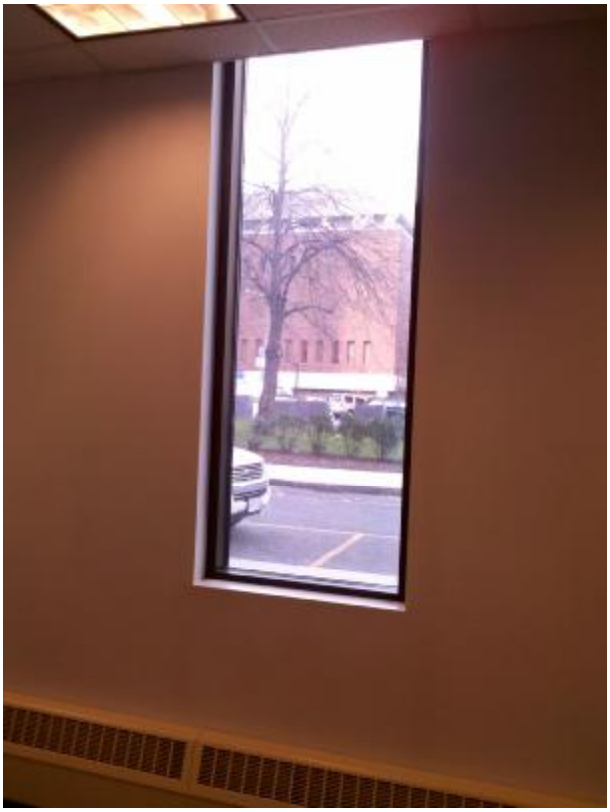
Appendix A

Ground-Level Window Photographs

Photograph No. 1: Typical Ground-Level Windows. Shown are windows G14 – G17 over playground area. Caulk bead is between edge of metal window frame and back edge of granite window "surround".

Photograph No. 2: Close-up view of Ground-Level Windows. Note gray caulk bead at edge of brown metal window frame.

Photograph No. 3: Typical wipe sampling locations on granite façade surface.



Photograph No. 4: Typical interior finishes around windows, consisting of drywall. Window "cavity" exists behind drywall on perimeter of window.

Photograph No. 5: View of mortar filling window cavity at window G1. Note mortar was removed in center of photograph during inspection. No other inspected window had this mortar filling.

Photograph No. 6: Missing caulk at one window. Note caulk residue at base of window.

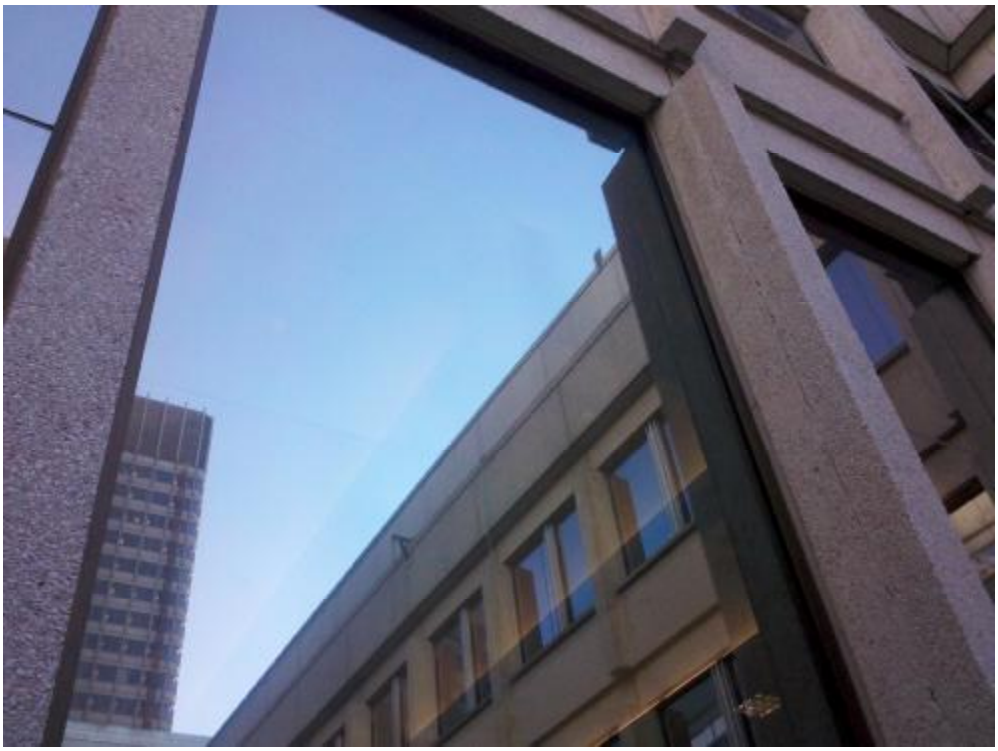
Appendix B

Courtyard Photographs

Photograph No. 1: Typical doorway leading into inner courtyard. Two of these doorways exist on south side elevation of courtyard. Frame/Concrete caulk bead is between edge of metal window frame and adjacent concrete wall.

Photograph No. 2: Close-up view of doorway leading into inner courtyard. Note light gray caulk bead between metal window frame and concrete wall.

Photograph No. 3: View of north elevation of courtyard, showing the 1st floor courtyard windows where two types of interior caulk/sealants around the window perimeters contain PCBs.



Photograph No. 4: View of east elevation "tall windows" that span the 1st and 2nd floors. There is Frame/Concrete caulk around the perimeter of each window, and glazing sealant between glass and frames on both interior and exterior.

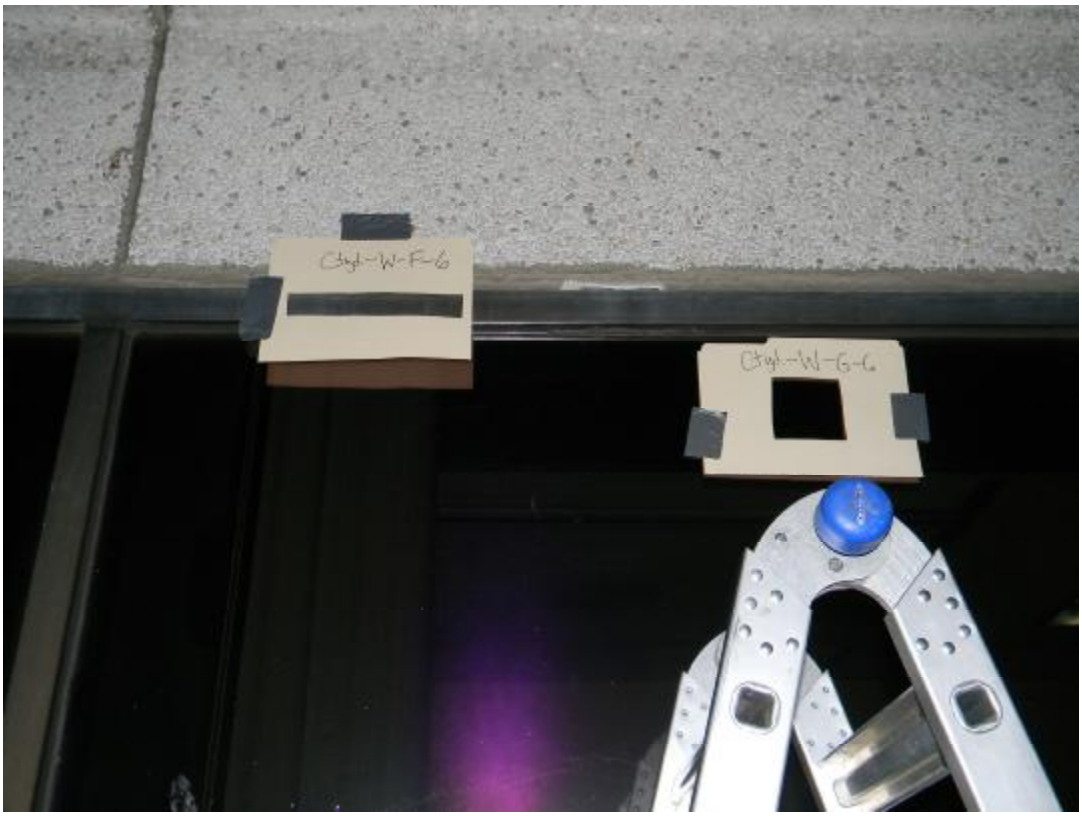
Photograph No. 5: View of southeast corner of courtyard. Note how east elevation tall windows butt up against south elevation side windows in some locations, with no intervening concrete surface. The Frame/Frame caulk is between the frames on the edges of these two windows.

Photograph No. 6: View of bottom of east elevation tall windows.

Photograph No. 7: View of west elevation of courtyard. Note 4th floor windows partially visible above parapet wall.

Photograph No. 8: View of interior of 1st floor courtyard windows. Note gray brittle trim sealant at edge of glass pane after trim "stop" was removed.

Photograph No. 9: Close-up view of interior of 1st floor courtyard windows. Note gray brittle trim sealant at edge of glass pane after trim "stop" was removed. Black sticky caulk/sealant was located at edge of glass pane, as well as on the outside surface of the pane near the edge.



Photograph No. 10: Typical complete sample set (#6 on 4th floor level). Note caulk sample location between two wipe sample locations. Concrete samples were collected going up from caulk bead after caulk and wipe samples were collected.

Photograph No. 11: Sample Location #1 on east elevation tall window.

Photograph No. 12: Sample Location #2 at northeast corner of courtyard. Note two abutting frames in center where Frame/Frame caulk sample was collected.

Photograph No. 13: Sample set Location #4 above western doorway in south elevation wall.

Photograph No. 14: Sample set Location #5 at side of eastern doorway in south elevation wall.

Photograph No. 15: Sample set Location #3 at bottom of eastern elevation window.

Appendix C
Laboratory Analytical Reports

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 3, 2012

Dan White
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: JFK Building, Boston, MA
Client Job Number:
Project Number: 060.41885.0001
Laboratory Work Order Number: 11L0621

Enclosed are results of analyses for samples received by the laboratory on December 15, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charles W. Balicki
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Dan White

REPORT DATE: 1/3/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.41885.0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11L0621

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JFK Building, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
G2-Caulk-Right	11L0621-01	Caulk		SW-846 8082A	
G6-Caulk-Bottom	11L0621-02	Caulk		SW-846 8082A	
G7-Caulk-Left	11L0621-03	Caulk		SW-846 8082A	
G8-Caulk-Left	11L0621-04	Caulk		SW-846 8082A	
G9-Caulk-Right	11L0621-05	Caulk		SW-846 8082A	
G9-Caulk-Right(2)	11L0621-06	Caulk		SW-846 8082A	
G13-Caulk-Left	11L0621-07	Caulk		SW-846 8082A	
G2-Wipe-Side	11L0621-08	Wipe		SW-846 8082A	
G2-Wipe-Side(2)	11L0621-09	Wipe		SW-846 8082A	
G2-Wipe-Bottom	11L0621-10	Wipe		SW-846 8082A	
G6-Wipe-Side	11L0621-11	Wipe		SW-846 8082A	
G6-Wipe-Bottom	11L0621-12	Wipe		SW-846 8082A	
G9-Wipe-Side	11L0621-13	Wipe		SW-846 8082A	
G9-Wipe-Bottom	11L0621-14	Wipe		SW-846 8082A	
G13-Wipe-Side	11L0621-15	Wipe		SW-846 8082A	
G13-Wipe-Bottom	11L0621-16	Wipe		SW-846 8082A	
G1-Mortar-Behind Flange	11L0621-17	Product/Solid		SW-846 8082A	
G1-Mortar-1in	11L0621-18	Product/Solid		SW-846 8082A	
G1-Mortar-3in	11L0621-19	Product/Solid		SW-846 8082A	
G1-Mortar-3in(2)	11L0621-20	Product/Solid		SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]

B043524-BS1

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]

B043524-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11L0621-01[G2-Caulk-Right], 11L0621-02[G6-Caulk-Bottom], 11L0621-03[G7-Caulk-Left], 11L0621-04[G8-Caulk-Left], 11L0621-05[G9-Caulk-Right], 11L0621-06[G9-Caulk-Right(2)], 11L0621-07[G13-Caulk-Left], 11L0621-18[G1-Mortar-1in]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Aroclor-1260

B043524-BS1, B043524-BSD1, B043524-MS1, B043524-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G2-Caulk-Right | Sampled: 12/13/2011 08:36

Sample ID: 11L0621-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1221 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1232 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1242 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1248 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1254 [2]	230000	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1260 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1262 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC
Aroclor-1268 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 12:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 12:48
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 12:48
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 12:48
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 12:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G6-Caulk-Bottom | Sampled: 12/13/2011 08:50

Sample ID: 11L0621-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1221 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1232 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1242 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1248 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1254 [2]	400000	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1260 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1262 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC
Aroclor-1268 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 13:01
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 13:01
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 13:01
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 13:01

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G7-Caulk-Left | Sampled: 12/13/2011 09:00

Sample ID: 11L0621-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1221 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1232 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1242 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1248 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1254 [2]	300000	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1260 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1262 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC
Aroclor-1268 [1]	ND	20000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:15	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 13:15
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 13:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 13:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 13:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G8-Caulk-Left | Sampled: 12/13/2011 09:08

Sample ID: 11L0621-04

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1221 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1232 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1242 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1248 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1254 [2]	410000	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1260 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1262 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC
Aroclor-1268 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:28	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 13:28
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 13:28
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 13:28
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 13:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G9-Caulk-Right | Sampled: 12/13/2011 09:20

Sample ID: 11L0621-05

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1221 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1232 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1242 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1248 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1254 [2]	410000	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1260 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1262 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC
Aroclor-1268 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:41	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 13:41
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 13:41
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 13:41
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 13:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G9-Caulk-Right(2) | Sampled: 12/13/2011 09:25

Sample ID: 11L0621-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1221 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1232 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1242 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1248 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1254 [2]	410000	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1260 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1262 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC
Aroclor-1268 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 13:54	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 13:54
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 13:54
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 13:54
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 13:54

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G13-Caulk-Left | Sampled: 12/13/2011 09:40

Sample ID: 11L0621-07

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1221 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1232 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1242 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1248 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1254 [2]	350000	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1260 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1262 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC
Aroclor-1268 [1]	ND	17000	mg/Kg	100000		SW-846 8082A	12/16/11	12/20/11 14:07	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/20/11 14:07
Decachlorobiphenyl [2]	*	30-150	S-01	12/20/11 14:07
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/20/11 14:07
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/20/11 14:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G2-Wipe-Side | Sampled: 12/13/2011 09:45

Sample ID: 11L0621-08

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1254 [1]	1.7	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.4	30-150		12/28/11 18:02
Decachlorobiphenyl [2]	72.9	30-150		12/28/11 18:02
Tetrachloro-m-xylene [1]	84.5	30-150		12/28/11 18:02
Tetrachloro-m-xylene [2]	84.7	30-150		12/28/11 18:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G2-Wipe-Side(2) | Sampled: 12/13/2011 09:48

Sample ID: 11L0621-09

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1254 [1]	0.65	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		12/28/11 18:15
Decachlorobiphenyl [2]	96.7	30-150		12/28/11 18:15
Tetrachloro-m-xylene [1]	109	30-150		12/28/11 18:15
Tetrachloro-m-xylene [2]	107	30-150		12/28/11 18:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G2-Wipe-Bottom | Sampled: 12/13/2011 09:50

Sample ID: 11L0621-10

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1221 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1232 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1242 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1248 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1254 [1]	16	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1260 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1262 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB
Aroclor-1268 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	12/27/11	12/29/11 6:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		12/29/11 6:18
Decachlorobiphenyl [2]	105	30-150		12/29/11 6:18
Tetrachloro-m-xylene [1]	103	30-150		12/29/11 6:18
Tetrachloro-m-xylene [2]	111	30-150		12/29/11 6:18

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G6-Wipe-Side | Sampled: 12/13/2011 09:59

Sample ID: 11L0621-11

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		12/28/11 18:40
Decachlorobiphenyl [2]	99.9	30-150		12/28/11 18:40
Tetrachloro-m-xylene [1]	114	30-150		12/28/11 18:40
Tetrachloro-m-xylene [2]	113	30-150		12/28/11 18:40

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G6-Wipe-Bottom | Sampled: 12/13/2011 10:05

Sample ID: 11L0621-12

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 18:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		12/28/11 18:53
Decachlorobiphenyl [2]	96.7	30-150		12/28/11 18:53
Tetrachloro-m-xylene [1]	110	30-150		12/28/11 18:53
Tetrachloro-m-xylene [2]	109	30-150		12/28/11 18:53

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G9-Wipe-Side | Sampled: 12/13/2011 10:10

Sample ID: 11L0621-13

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1254 [1]	2.2	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.4	30-150		12/28/11 19:05
Decachlorobiphenyl [2]	90.0	30-150		12/28/11 19:05
Tetrachloro-m-xylene [1]	105	30-150		12/28/11 19:05
Tetrachloro-m-xylene [2]	105	30-150		12/28/11 19:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G9-Wipe-Bottom | Sampled: 12/13/2011 10:15

Sample ID: 11L0621-14

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1221 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1232 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1242 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1248 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1254 [1]	8.2	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1260 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1262 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB
Aroclor-1268 [1]	ND	1.0	µg/Wipe	5		SW-846 8082A	12/27/11	12/29/11 6:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		12/29/11 6:30
Decachlorobiphenyl [2]	103	30-150		12/29/11 6:30
Tetrachloro-m-xylene [1]	108	30-150		12/29/11 6:30
Tetrachloro-m-xylene [2]	116	30-150		12/29/11 6:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G13-Wipe-Side | Sampled: 12/13/2011 10:20

Sample ID: 11L0621-15

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1254 [1]	0.21	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/29/11 6:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		12/29/11 6:43
Decachlorobiphenyl [2]	94.9	30-150		12/29/11 6:43
Tetrachloro-m-xylene [1]	108	30-150		12/29/11 6:43
Tetrachloro-m-xylene [2]	108	30-150		12/29/11 6:43

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G13-Wipe-Bottom | Sampled: 12/13/2011 10:23

Sample ID: 11L0621-16

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	12/27/11	12/28/11 19:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		12/28/11 19:44
Decachlorobiphenyl [2]	101	30-150		12/28/11 19:44
Tetrachloro-m-xylene [1]	113	30-150		12/28/11 19:44
Tetrachloro-m-xylene [2]	112	30-150		12/28/11 19:44

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G1-Mortar-Behind Flange | Sampled: 12/13/2011 08:00

Sample ID: 11L0621-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1221 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1232 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1242 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1248 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1254 [1]	7.7	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1260 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1262 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB
Aroclor-1268 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 9:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	118	30-150		12/29/11 9:54
Decachlorobiphenyl [2]	126	30-150		12/29/11 9:54
Tetrachloro-m-xylene [1]	97.4	30-150		12/29/11 9:54
Tetrachloro-m-xylene [2]	110	30-150		12/29/11 9:54

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G1-Mortar-1in | Sampled: 12/13/2011 08:05

Sample ID: 11L0621-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1221 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1232 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1242 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1248 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1254 [2]	17	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1260 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1262 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB
Aroclor-1268 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	12/27/11	12/29/11 12:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/29/11 12:39
Decachlorobiphenyl [2]	*	30-150	S-01	12/29/11 12:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/29/11 12:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/29/11 12:39

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G1-Mortar-3in | Sampled: 12/13/2011 08:10

Sample ID: 11L0621-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1221 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1232 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1242 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1248 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1254 [2]	7.1	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1260 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1262 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB
Aroclor-1268 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	12/27/11	12/29/11 10:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	130	30-150		12/29/11 10:24
Decachlorobiphenyl [2]	134	30-150		12/29/11 10:24
Tetrachloro-m-xylene [1]	111	30-150		12/29/11 10:24
Tetrachloro-m-xylene [2]	123	30-150		12/29/11 10:24

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0621

Date Received: 12/15/2011

Field Sample #: G1-Mortar-3in(2) | Sampled: 12/13/2011 08:12

Sample ID: 11L0621-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1254 [1]	0.86	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	12/27/11	12/29/11 10:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		12/29/11 10:39
Decachlorobiphenyl [2]	115	30-150		12/29/11 10:39
Tetrachloro-m-xylene [1]	105	30-150		12/29/11 10:39
Tetrachloro-m-xylene [2]	104	30-150		12/29/11 10:39

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11L0621-01 [G2-Caulk-Right]	B042975	0.526	10.0	12/16/11
11L0621-02 [G6-Caulk-Bottom]	B042975	0.557	10.0	12/16/11
11L0621-03 [G7-Caulk-Left]	B042975	0.501	10.0	12/16/11
11L0621-04 [G8-Caulk-Left]	B042975	0.552	10.0	12/16/11
11L0621-05 [G9-Caulk-Right]	B042975	0.527	10.0	12/16/11
11L0621-06 [G9-Caulk-Right(2)]	B042975	0.536	10.0	12/16/11
11L0621-07 [G13-Caulk-Left]	B042975	0.589	10.0	12/16/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11L0621-17 [G1-Mortar-Behind Flange]	B043524	2.10	10.0	12/27/11
11L0621-18 [G1-Mortar-1in]	B043524	2.00	10.0	12/27/11
11L0621-19 [G1-Mortar-3in]	B043524	2.00	10.0	12/27/11
11L0621-20 [G1-Mortar-3in(2)]	B043524	2.00	10.0	12/27/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
11L0621-08 [G2-Wipe-Side]	B043523	1.00	10.0	12/27/11
11L0621-09 [G2-Wipe-Side(2)]	B043523	1.00	10.0	12/27/11
11L0621-10 [G2-Wipe-Bottom]	B043523	1.00	10.0	12/27/11
11L0621-11 [G6-Wipe-Side]	B043523	1.00	10.0	12/27/11
11L0621-12 [G6-Wipe-Bottom]	B043523	1.00	10.0	12/27/11
11L0621-13 [G9-Wipe-Side]	B043523	1.00	10.0	12/27/11
11L0621-14 [G9-Wipe-Bottom]	B043523	1.00	10.0	12/27/11
11L0621-15 [G13-Wipe-Side]	B043523	1.00	10.0	12/27/11
11L0621-16 [G13-Wipe-Bottom]	B043523	1.00	10.0	12/27/11

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B042975 - SW-846 3540C										
Blank (B042975-BLK1)				Prepared: 12/16/11 Analyzed: 12/19/11						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*3.13*		mg/Kg	4.00		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.96*		mg/Kg	4.00		74.1	30-150			
Surrogate: Tetrachloro-m-xylene	*3.99*		mg/Kg	4.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.99*		mg/Kg	4.00		99.7	30-150			
LCS (B042975-BS1)				Prepared: 12/16/11 Analyzed: 12/19/11						
Aroclor-1016	4.0	0.20	mg/Kg	4.00		101	40-140			
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		94.3	40-140			
Aroclor-1260	3.9	0.20	mg/Kg	4.00		96.9	40-140			
Aroclor-1260 [2C]	3.5	0.20	mg/Kg	4.00		88.6	40-140			
Surrogate: Decachlorobiphenyl	*4.23*		mg/Kg	4.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.78*		mg/Kg	4.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*3.95*		mg/Kg	4.00		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.91*		mg/Kg	4.00		97.8	30-150			
LCS Dup (B042975-BSD1)				Prepared: 12/16/11 Analyzed: 12/19/11						
Aroclor-1016	4.1	0.20	mg/Kg	4.00		102	40-140	1.11	30	
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		94.7	40-140	0.410	30	
Aroclor-1260	3.9	0.20	mg/Kg	4.00		98.0	40-140	1.19	30	
Aroclor-1260 [2C]	3.6	0.20	mg/Kg	4.00		89.7	40-140	1.22	30	
Surrogate: Decachlorobiphenyl	*4.18*		mg/Kg	4.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.85*		mg/Kg	4.00		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	*3.86*		mg/Kg	4.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.84*		mg/Kg	4.00		96.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B043523 - SW-846 3540C										
Blank (B043523-BLK1)				Prepared: 12/27/11 Analyzed: 12/28/11						
Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Surrogate: Decachlorobiphenyl	*2.09*		µg/Wipe	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.95*		µg/Wipe	2.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.35*		µg/Wipe	2.00		118	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.34*		µg/Wipe	2.00		117	30-150			
LCS (B043523-BS1)				Prepared: 12/27/11 Analyzed: 12/28/11						
Aroclor-1016	0.56	0.20	µg/Wipe	0.500		112	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/Wipe	0.500		105	40-140			
Aroclor-1260	0.47	0.20	µg/Wipe	0.500		93.8	40-140			
Aroclor-1260 [2C]	0.49	0.20	µg/Wipe	0.500		97.4	40-140			
Surrogate: Decachlorobiphenyl	*1.84*		µg/Wipe	2.00		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.71*		µg/Wipe	2.00		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*2.16*		µg/Wipe	2.00		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.15*		µg/Wipe	2.00		108	30-150			
LCS Dup (B043523-BSD1)				Prepared: 12/27/11 Analyzed: 12/28/11						
Aroclor-1016	0.54	0.20	µg/Wipe	0.500		108	40-140	2.87	30	
Aroclor-1016 [2C]	0.52	0.20	µg/Wipe	0.500		104	40-140	0.899	30	
Aroclor-1260	0.47	0.20	µg/Wipe	0.500		93.7	40-140	0.0576	30	
Aroclor-1260 [2C]	0.48	0.20	µg/Wipe	0.500		96.7	40-140	0.789	30	
Surrogate: Decachlorobiphenyl	*1.82*		µg/Wipe	2.00		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.71*		µg/Wipe	2.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.07*		µg/Wipe	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.07*		µg/Wipe	2.00		103	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B043524 - SW-846 3540C											
Blank (B043524-BLK1)				Prepared: 12/27/11 Analyzed: 12/28/11							
Aroclor-1016	ND	0.10	mg/Kg								
Aroclor-1016 [2C]	ND	0.10	mg/Kg								
Aroclor-1221	ND	0.10	mg/Kg								
Aroclor-1221 [2C]	ND	0.10	mg/Kg								
Aroclor-1232	ND	0.10	mg/Kg								
Aroclor-1232 [2C]	ND	0.10	mg/Kg								
Aroclor-1242	ND	0.10	mg/Kg								
Aroclor-1242 [2C]	ND	0.10	mg/Kg								
Aroclor-1248	ND	0.10	mg/Kg								
Aroclor-1248 [2C]	ND	0.10	mg/Kg								
Aroclor-1254	ND	0.10	mg/Kg								
Aroclor-1254 [2C]	ND	0.10	mg/Kg								
Aroclor-1260	ND	0.10	mg/Kg								
Aroclor-1260 [2C]	ND	0.10	mg/Kg								
Aroclor-1262	ND	0.10	mg/Kg								
Aroclor-1262 [2C]	ND	0.10	mg/Kg								
Aroclor-1268	ND	0.10	mg/Kg								
Aroclor-1268 [2C]	ND	0.10	mg/Kg								
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.993*		mg/Kg	1.00		99.3		30-150			
Surrogate: Tetrachloro-m-xylene	*1.10*		mg/Kg	1.00		110		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.15*		mg/Kg	1.00		115		30-150			
LCS (B043524-BS1)				Prepared: 12/27/11 Analyzed: 12/28/11							
Aroclor-1016	0.27	0.10	mg/Kg	0.250		109		40-140			
Aroclor-1016 [2C]	0.36	0.10	mg/Kg	0.250		**143**	*	40-140			L-07
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.8		40-140			V-05
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		104		40-140			
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.956*		mg/Kg	1.00		95.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.992*		mg/Kg	1.00		99.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105		30-150			
LCS Dup (B043524-BSD1)				Prepared: 12/27/11 Analyzed: 12/28/11							
Aroclor-1016	0.27	0.10	mg/Kg	0.250		108		40-140	1.10	30	
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250		132		40-140	8.52	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.7		40-140	1.16	30	V-05
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		103		40-140	1.36	30	
Surrogate: Decachlorobiphenyl	*0.965*		mg/Kg	1.00		96.5		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7		30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B043524 - SW-846 3540C											
Matrix Spike (B043524-MS1)	**Source: 11L0621-20**			Prepared: 12/27/11 Analyzed: 12/28/11							
Aroclor-1016	0.29	0.10	mg/Kg	0.250	0.0	117		40-140			
Aroclor-1016 [2C]	0.35	0.10	mg/Kg	0.250	0.0	138		40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250	0.0	98.9		40-140			V-05
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250	0.0	107		40-140			
Surrogate: Decachlorobiphenyl	*0.859*		mg/Kg	1.00		85.9		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.814*		mg/Kg	1.00		81.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.996*		mg/Kg	1.00		99.6		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106		30-150			
Matrix Spike Dup (B043524-MSD1)	**Source: 11L0621-20**			Prepared: 12/27/11 Analyzed: 12/28/11							
Aroclor-1016	0.30	0.10	mg/Kg	0.250	0.0	122		40-140	3.70	50	
Aroclor-1016 [2C]	0.36	0.10	mg/Kg	0.250	0.0	**145**	*	40-140	4.94	50	MS-11
Aroclor-1260	0.28	0.10	mg/Kg	0.250	0.0	112		40-140	12.3	50	V-05
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250	0.0	120		40-140	11.3	50	
Surrogate: Decachlorobiphenyl	*0.955*		mg/Kg	1.00		95.5		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.889*		mg/Kg	1.00		88.9		30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

11L0621

Company Name: ATC Associates
Address: 600 West Cummings Park, Suite 5450
Woburn MA 01801
Attention: Dan White
Project Location: JFK Building, Boston MA
Sampled By: BC

Telephone: 781-932-9400
Project # 0600.41885.00002
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ⊘ EMAIL ⊘ WEBSITE
Fax #
Email: daniel.white@atcassociates.com
Format: ⊘ PDF ⊘ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection ~~Ending Date~~/Time	Composite	Grab	*Matrix Code	Conc Code	10	F/O	G	ANALYSIS REQUESTED: PCB (8082) (Soxhlet)
01	G2 - caulk - right	12/13/11	836		X	S					X
02	G6 - caulk - bottom	↓	850		↓	↓					X
03	G7 - caulk - left		900								X
04	G8 - caulk - left		908								X
05	G9 - caulk - right		920								X
06	G9 - caulk - right (2)		925								X
07	G13 - caulk - left		940			↓					X
(A) 08	G2 - wipe - side		945			O					X
(A) 09	G2 - wipe - side (2)		948								X
(A) 10	G2 - wipe - bottom	✓	950		↓	↓					X

HOLD

Comments:
RUN CAULK SAMPLES ONLY (first 7) - HOLD OTHERS UNTIL WE GET RESULTS + GET ATC APPROVAL

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	12/15/11 1020
Received by: (signature)	Date/Time: 10 [illegible]
Relinquished by: (signature)	Date/Time: 1745
Received by: (signature) Paula Bee	Date/Time: 12/15/11 1745

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other Std.
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: EPA TSCA - 1 mg/kg; 1 µg/wipe

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other Hexane

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other wipe

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

(A) Samples -08 thru -20 taken off hold per Dan White. cwb 12/23/11

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Fax: 413-525-6405
Email: info@contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 2 of 2

Company Name: ATC Associates
Address: 600 W Cummings Park, Suite 5450
Woburn MA 01801
Attention: Dan White
Project Location: JFK Building, Boston MA
Sampled By: BC
Telephone: 781-932-9400
Project # 0600.41885.0002
Client PO#

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ⊗ EMAIL ⊗ WEBSITE
Fax #
Email: daniel.white@atcassociates.com
Format: ⊗ PDF ⊗ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	PCB (8082) soxhlet	ANALYSIS REQUESTED
11	G6 - wipe - side	12/13/11	959		X	O		1	F/O	G	X	HOLD
12	G6 - wipe - bottom		1005									
13	G9 - wipe - side		1010									
14	G9 - wipe - bottom		1015									
15	G13 - wipe - side		1020									
16	G13 - wipe - bottom		1023			↓						
17	G1 - mortar - behind flange		800			S						
18	G1 - mortar - 1"		805									
19	G1 - mortar - 3"		810									
20	G1 - mortar - 3" (2)	↓	812		↓	↓					↓	

Comments: see Page 1

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other Hexane

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other wipe

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Relinquished by: (signature)	Date/Time:
	12/15/11 1020
Received by: (signature)	Date/Time:
	12-15-11 1020
Relinquished by: (signature)	Date/Time:
	12 15 11 1745
Received by: (signature)	Date/Time:
Paula Blakeboro	12/15/11 1745

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other Std.
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: EPA TSCA - 1 mg/kg; 1 µg/wipe

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: PB DATE: 12/15/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.0

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	20
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2011

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 27, 2011

Dan White
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: JFK Building, Boston, MA
Client Job Number:
Project Number: 060.41885.0002
Laboratory Work Order Number: 11L0693

Enclosed are results of analyses for samples received by the laboratory on December 19, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charles W. Balicki
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Dan White

REPORT DATE: 12/27/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.41885.0002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11L0693

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JFK Building, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
G10-Caulk-Left	11L0693-01	Caulk		SW-846 8082A	
G11-Caulk-Bottom	11L0693-02	Caulk		SW-846 8082A	
G12-Caulk-Left	11L0693-03	Caulk		SW-846 8082A	

con-test® ANALYTICAL LABORATORY
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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11L0693-01[G10-Caulk-Left], 11L0693-02[G11-Caulk-Bottom], 11L0693-03[G12-Caulk-Left]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0693

Date Received: 12/19/2011

Field Sample #: G10-Caulk-Left | Sampled: 12/15/2011 07:26

Sample ID: 11L0693-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1221 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1232 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1242 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1248 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1254 [1]	220000	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1260 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1262 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC
Aroclor-1268 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:33	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/22/11 13:33
Decachlorobiphenyl [2]	*	30-150	S-01	12/22/11 13:33
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/22/11 13:33
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/22/11 13:33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0693

Date Received: 12/19/2011

Field Sample #: G11-Caulk-Bottom | Sampled: 12/15/2011 07:35

Sample ID: 11L0693-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1221 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1232 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1242 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1248 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1254 [2]	300000	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1260 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1262 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC
Aroclor-1268 [1]	ND	19000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/22/11 13:46
Decachlorobiphenyl [2]	*	30-150	S-01	12/22/11 13:46
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/22/11 13:46
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/22/11 13:46

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 11L0693

Date Received: 12/19/2011

Field Sample #: G12-Caulk-Left | Sampled: 12/15/2011 07:40

Sample ID: 11L0693-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1221 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1232 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1242 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1248 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1254 [2]	250000	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1260 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1262 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC
Aroclor-1268 [1]	ND	18000	mg/Kg	100000		SW-846 8082A	12/19/11	12/22/11 13:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	12/22/11 13:59
Decachlorobiphenyl [2]	*	30-150	S-01	12/22/11 13:59
Tetrachloro-m-xylene [1]	*	30-150	S-01	12/22/11 13:59
Tetrachloro-m-xylene [2]	*	30-150	S-01	12/22/11 13:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11L0693-01 [G10-Caulk-Left]	B043113	0.516	10.0	12/19/11
11L0693-02 [G11-Caulk-Bottom]	B043113	0.523	10.0	12/19/11
11L0693-03 [G12-Caulk-Left]	B043113	0.552	10.0	12/19/11

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B043113 - SW-846 3540C										
Blank (B043113-BLK1)				Prepared: 12/19/11 Analyzed: 12/21/11						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*3.11*		mg/Kg	4.00		77.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.86*		mg/Kg	4.00		71.5	30-150			
Surrogate: Tetrachloro-m-xylene	*3.78*		mg/Kg	4.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.90*		mg/Kg	4.00		97.5	30-150			
LCS (B043113-BS1)				Prepared: 12/19/11 Analyzed: 12/21/11						
Aroclor-1016	3.8	0.20	mg/Kg	4.00		95.0	40-140			
Aroclor-1016 [2C]	3.3	0.20	mg/Kg	4.00		81.5	40-140			
Aroclor-1260	3.0	0.20	mg/Kg	4.00		74.7	40-140			
Aroclor-1260 [2C]	2.9	0.20	mg/Kg	4.00		71.6	40-140			
Surrogate: Decachlorobiphenyl	*3.02*		mg/Kg	4.00		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.75*		mg/Kg	4.00		68.8	30-150			
Surrogate: Tetrachloro-m-xylene	*3.61*		mg/Kg	4.00		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.72*		mg/Kg	4.00		93.1	30-150			
LCS Dup (B043113-BSD1)				Prepared: 12/19/11 Analyzed: 12/21/11						
Aroclor-1016	4.2	0.20	mg/Kg	4.00		104	40-140	8.93	30	
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		88.3	40-140	7.97	30	
Aroclor-1260	3.8	0.20	mg/Kg	4.00		94.4	40-140	23.4	30	
Aroclor-1260 [2C]	3.6	0.20	mg/Kg	4.00		90.5	40-140	23.3	30	
Surrogate: Decachlorobiphenyl	*4.28*		mg/Kg	4.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.90*		mg/Kg	4.00		97.4	30-150			
Surrogate: Tetrachloro-m-xylene	*3.53*		mg/Kg	4.00		88.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.60*		mg/Kg	4.00		89.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

11L0693

Company Name: ATC Associates
Address: 600 W Cummings Park, Suite 5450
Woburn MA 01801
Attention: Dan White
Project Location: JFK Building Boston MA
Sampled By: BC

Telephone: 781-932-9400
Project #: 060.41885.0002
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ☒ WEBSITE
Fax #:
Email: daniel.white@atcassociates.com
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER ______
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes ______ proposal date

# of Containers	4						
** Preservation	I/M						
***Container Code	G						

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/~~Time~~	Collection ~~Ending~~ ~~Date~~/Time	Composite	Grab	*Matrix Code	Conc Code	PCB (soxhlet) (8082)		
01	G10-caulk-left	12/15/11	726		X	S		X		
02	G11-caulk-bottom	↓	735		↓	↓		↓		
03	G12-caulk-left	↓	740		↓	↓		↓		
04	G10-wipe-B	↓	741		↓	O		↓	← HOLD	

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other ______

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other wipe

Comments: PLEASE ONLY RUN CAULK SAMPLES & CONTACT ATC PRIOR TO RUNNING OTHERS FOR APPROVAL

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [signature]	Date/Time: 12/19/11 1030
Received by: (signature) [signature]	Date/Time: 12/19/11 1030
Relinquished by: (signature) [signature]	Date/Time: 12/19/11 2:25
Received by: (signature) C. Changle Legall 4.0°C	Date/Time: 12/19/11 14:45

Turnaround ††
☒ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: EPA TSCA - 1mg/kg, 1ug/wipe

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ______

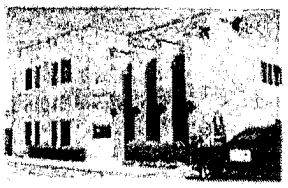
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C.C-S DATE: 12/19/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.0°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	4
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 19, 2012

Dan White
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: JFK Building, Boston, MA
Client Job Number:
Project Number: 60.41885.0001
Laboratory Work Order Number: 12A0434

Enclosed are results of analyses for samples received by the laboratory on January 16, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charles W. Balicki
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Dan White

REPORT DATE: 1/19/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.41885.0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12A0434

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JFK Building, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
4	12A0434-01	Caulk	W. Wall Interior Window Sticky Black Caulk	SW-846 8082A	
5	12A0434-02	Caulk	W. Wall Interior Window Brittle Dark Gray Caulk	SW-846 8082A	
1	12A0434-03	Caulk	S. Wall Interior Window Brittle Dark Gray Caulk	SW-846 8082A	
2	12A0434-04	Caulk	S. Wall Interior Window Sticky Black Caulk	SW-846 8082A	
3	12A0434-05	Caulk	S. Wall Interior Window Brittle Light Gray Caulk	SW-846 8082A	
6	12A0434-06	Caulk	N. Wall Interior Window Sticky Black Caulk	SW-846 8082A	
7	12A0434-07	Caulk	N. Wall Interior Window Brittle Dark Gray Caulk	SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

12A0434-01[4], 12A0434-02[5], 12A0434-03[1], 12A0434-04[2], 12A0434-06[6], 12A0434-07[7]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: W. Wall Interior Window Sticky Black | Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 4 | Sampled: 1/12/2012 19:00

Sample ID: 12A0434-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1221 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1232 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1242 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1248 [1]	3600	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1254 [2]	1000	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1260 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1262 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG
Aroclor-1268 [1]	ND	200	mg/Kg	1000		SW-846 8082A	1/17/12	1/19/12 9:21	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/19/12 9:21
Decachlorobiphenyl [2]	*	30-150	S-01	1/19/12 9:21
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/19/12 9:21
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/19/12 9:21

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Project Location: JFK Building, Boston, MA | Sample Description: W. Wall Interior Window Brittle Dark | Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 5 | Sampled: 1/12/2012 19:10

Sample ID: 12A0434-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1221 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1232 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1242 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1248 [2]	48	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1254 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1260 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1262 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG
Aroclor-1268 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/18/12 17:12
Decachlorobiphenyl [2]	*	30-150	S-01	1/18/12 17:12
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/18/12 17:12
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/18/12 17:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: S. Wall Interior Window Brittle Dark (| Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 1 | Sampled: 1/12/2012 19:30

Sample ID: 12A0434-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1221 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1232 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1242 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1248 [2]	58	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1254 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1260 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1262 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG
Aroclor-1268 [1]	ND	10	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:25	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/18/12 17:25
Decachlorobiphenyl [2]	*	30-150	S-01	1/18/12 17:25
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/18/12 17:25
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/18/12 17:25

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Project Location: JFK Building, Boston, MA | Sample Description: S. Wall Interior Window Sticky Black | Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 2 | Sampled: 1/12/2012 19:40

Sample ID: 12A0434-04

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1221 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1232 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1242 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1248 [1]	5400	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1254 [2]	2100	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1260 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1262 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG
Aroclor-1268 [1]	ND	360	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 10:39	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/19/12 10:39
Decachlorobiphenyl [2]	*	30-150	S-01	1/19/12 10:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/19/12 10:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/19/12 10:39

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Project Location: JFK Building, Boston, MA | Sample Description: S. Wall Interior Window Brittle Light (| Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 3 | Sampled: 1/12/2012 19:50

Sample ID: 12A0434-05

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1221 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1232 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1242 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1248 [2]	22	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1254 [2]	13	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1260 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1262 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG
Aroclor-1268 [1]	ND	1.0	mg/Kg	5		SW-846 8082A	1/17/12	1/18/12 17:38	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	149	30-150		1/18/12 17:38
Decachlorobiphenyl [2]	126	30-150		1/18/12 17:38
Tetrachloro-m-xylene [1]	134	30-150		1/18/12 17:38
Tetrachloro-m-xylene [2]	132	30-150		1/18/12 17:38

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Project Location: JFK Building, Boston, MA | Sample Description: N. Wall Interior Window Sticky Black | Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 6 | Sampled: 1/12/2012 20:30

Sample ID: 12A0434-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1221 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1232 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1242 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1248 [2]	8300	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1254 [2]	3500	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1260 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1262 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG
Aroclor-1268 [1]	ND	340	mg/Kg	2000		SW-846 8082A	1/17/12	1/19/12 9:47	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/19/12 9:47
Decachlorobiphenyl [2]	*	30-150	S-01	1/19/12 9:47
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/19/12 9:47
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/19/12 9:47

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Project Location: JFK Building, Boston, MA | Sample Description: N. Wall Interior Window Brittle Dark (| Work Order: 12A0434

Date Received: 1/16/2012

Field Sample #: 7 | Sampled: 1/12/2012 20:40

Sample ID: 12A0434-07

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1221 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1232 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1242 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1248 [2]	180	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1254 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1260 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1262 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG
Aroclor-1268 [1]	ND	8.5	mg/Kg	50		SW-846 8082A	1/17/12	1/18/12 17:51	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	1/18/12 17:51
Decachlorobiphenyl [2]	*	30-150	S-01	1/18/12 17:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/18/12 17:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/18/12 17:51

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12A0434-01 [4]	B044523	0.500	10.0	01/17/12
12A0434-02 [5]	B044523	0.504	10.0	01/17/12
12A0434-03 [1]	B044523	0.501	10.0	01/17/12
12A0434-04 [2]	B044523	0.561	10.0	01/17/12
12A0434-05 [3]	B044523	0.502	10.0	01/17/12
12A0434-06 [6]	B044523	0.580	10.0	01/17/12
12A0434-07 [7]	B044523	0.585	10.0	01/17/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B044523 - SW-846 3540C										
Blank (B044523-BLK1)				Prepared: 01/17/12 Analyzed: 01/18/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*4.91*		mg/Kg	4.00		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.12*		mg/Kg	4.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*4.28*		mg/Kg	4.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.21*		mg/Kg	4.00		105	30-150			
LCS (B044523-BS1)				Prepared: 01/17/12 Analyzed: 01/18/12						
Aroclor-1016	5.4	0.20	mg/Kg	4.00		135	40-140			
Aroclor-1016 [2C]	4.5	0.20	mg/Kg	4.00		113	40-140			
Aroclor-1260	3.9	0.20	mg/Kg	4.00		98.6	40-140			
Aroclor-1260 [2C]	3.9	0.20	mg/Kg	4.00		97.7	40-140			
Surrogate: Decachlorobiphenyl	*4.08*		mg/Kg	4.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.42*		mg/Kg	4.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene	*5.98*		mg/Kg	4.00		150	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*5.68*		mg/Kg	4.00		142	30-150			
LCS Dup (B044523-BSD1)				Prepared: 01/17/12 Analyzed: 01/18/12						
Aroclor-1016	5.3	0.20	mg/Kg	4.00		132	40-140	2.06	30	
Aroclor-1016 [2C]	4.6	0.20	mg/Kg	4.00		114	40-140	0.775	30	
Aroclor-1260	5.3	0.20	mg/Kg	4.00		131	40-140	28.5	30	
Aroclor-1260 [2C]	5.0	0.20	mg/Kg	4.00		124	40-140	23.9	30	
Surrogate: Decachlorobiphenyl	*5.98*		mg/Kg	4.00		150	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.93*		mg/Kg	4.00		123	30-150			
Surrogate: Tetrachloro-m-xylene	*5.04*		mg/Kg	4.00		126	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.89*		mg/Kg	4.00		122	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

12A0434

Company Name: ATC Associates
Address: 600 W. Cummings Park, Ste 5450, Woburn, MA 01801
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: Chris Amorelli

Telephone: (781) 404-1432
Project #: 60.41285.0001
Client PO #: None

DATA DELIVERY (check one): ☐ FAX ☒ EMAIL ☒ WEBSITE CLIENT
Fax #:
Email: Daniel.White@ATCAssociates.com
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes ____ proposal date
State Form Required? ☐ yes ☒ no

# of containers: 1 | **Preservation: I | ~Cont. Code: G

ANALYSIS REQUESTED: 8082/Soxhlet

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	8082/Soxhlet
4	West Wall Interior Window Sticky Black Caulk	01	1/12/12	1900		X	O	U	X
5	West Wall Interior Window Brittle Dark Gray Caulk	02	↓	1910		↓	↓	↓	↓
1	South Wall Interior Window Brittle Dark Gray Caulk	03	↓	1930		↓	↓	↓	↓
2	South Wall Interior Window ~~Brittle~~ Sticky Black Caulk	04	↓	1940		↓	↓	↓	↓
3	South Wall Interior Window Brittle Light Gray Caulk	05	↓	1950		↓	↓	↓	↓
6	North Wall Interior Window Sticky Black Caulk	06	↓	2030		↓	↓	↓	↓
7	North Wall Interior Window Brittle Dark Gray Caulk	07	↓	2040		↓	↓	↓	↓

~Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V= vial, S=summa can, T=tedlar bag, O=Other

Client Comments:

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; **M** - Medium; **L** - Low; **C** - Clean; **U** - Unknown

Relinquished / Received	Date/Time
Relinquished by: (signature) [signature]	1/16/12 11:01
Received by: (signature) [signature]	1/16/12 1105
Relinquished by: (signature) [signature]	1/16/12 415
Received by: (signature) C. Clements-Segall 3.0°C	1/16/12 16:15

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☒ *72-Hr ☐ *4-Day
*** Require lab approval**

Detection Limit Requirements
Regulations? EPA/TSCA
Data Enhancement Project/RCP? ☐ Y ☒ N
Special Requirements or DL's: 1 ppm

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Caulk

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other ____
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C.C.S. DATE: 1/16/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0°C

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	7
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

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February 13, 2012

Dan White
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: JFK Building, Boston, MA
Client Job Number:
Project Number: 60.41885.0001
Laboratory Work Order Number: 12B0194

Enclosed are results of analyses for samples received by the laboratory on February 6, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charles W. Balicki
Project Manager

con-test® ANALYTICAL LABORATORY
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ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Dan White

REPORT DATE: 2/13/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.41885.0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0194

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JFK Building, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Caulk-F/G-#1	12B0194-01	Caulk		SW-846 8082A	
Caulk-F/W-#1	12B0194-02	Caulk		SW-846 8082A	
Caulk-F/G-#2	12B0194-03	Caulk		SW-846 8082A	
Caulk-F/F-#2 A	12B0194-04	Caulk		SW-846 8082A	
Caulk-F/F-#2 B	12B0194-05	Caulk		SW-846 8082A	
Caulk-F/F-#2 C	12B0194-06	Caulk		SW-846 8082A	
Caulk-F/G-#3	12B0194-07	Caulk		SW-846 8082A	
Caulk-F/W-#4	12B0194-08	Caulk		SW-846 8082A	
Caulk-F/W-#5	12B0194-09	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 5-#1	12B0194-10	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 4-#1	12B0194-11	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 3-#1	12B0194-12	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 5-#2	12B0194-13	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 1-#1	12B0194-14	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 2-#2	12B0194-15	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 4-#2	12B0194-16	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 2-#1	12B0194-17	Caulk		SW-846 8082A	
Caulk-EW-INT-TYPE 3-#2	12B0194-18	Caulk		SW-846 8082A	
Caulk-F/W-#7	12B0194-19	Caulk		SW-846 8082A	
Caulk-F/G-#7	12B0194-20	Caulk		SW-846 8082A	
Caulk-F/W-#6	12B0194-21	Caulk		SW-846 8082A	
Caulk-F/G-#6	12B0194-22	Caulk		SW-846 8082A	
Caulk-F/W-#6A	12B0194-23	Caulk		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B045760-BSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

12B0194-01[Caulk-F/G-#1], 12B0194-02[Caulk-F/W-#1], 12B0194-03[Caulk-F/G-#2], 12B0194-04[Caulk-F/F-#2 A], 12B0194-05[Caulk-F/F-#2 B], 12B0194-06[Caulk-F/F-#2 C], 12B0194-07[Caulk-F/G-#3], 12B0194-08[Caulk-F/W-#4], 12B0194-09[Caulk-F/W-#5], 12B0194-10[Caulk-EW-INT-TYPE 5-#1], 12B0194-11[Caulk-EW-INT-TYPE 4-#1], 12B0194-13[Caulk-EW-INT-TYPE 5-#2], 12B0194-14[Caulk-EW-INT-TYPE 1-#1], 12B0194-15[Caulk-EW-INT-TYPE 2-#2], 12B0194-16[Caulk-EW-INT-TYPE 4-#2], 12B0194-17[Caulk-EW-INT-TYPE 2-#1], 12B0194-19[Caulk-F/W-#7], 12B0194-20[Caulk-F/G-#7], 12B0194-21[Caulk-F/W-#6], 12B0194-22[Caulk-F/G-#6], 12B0194-23[Caulk-F/W-#6A]

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:

Tetrachloro-m-xylene

B045760-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/G-#1 | Sampled: 2/2/2012 18:45

Sample ID: 12B0194-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1221 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1232 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1242 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1248 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1254 [1]	210	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1260 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1262 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC
Aroclor-1268 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 21:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 21:30
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 21:30
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 21:30
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 21:30

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/W-#1 | Sampled: 2/2/2012 18:47

Sample ID: 12B0194-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1221 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1232 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1242 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1248 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1254 [1]	16000	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1260 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1262 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC
Aroclor-1268 [1]	ND	980	mg/Kg	5000		SW-846 8082A	2/7/12	2/10/12 15:04	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 15:04
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 15:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 15:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 15:04

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/G-#2 | Sampled: 2/2/2012 18:52

Sample ID: 12B0194-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1221 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1232 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1242 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1248 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1254 [1]	800	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1260 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1262 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC
Aroclor-1268 [1]	ND	46	mg/Kg	250		SW-846 8082A	2/7/12	2/9/12 22:00	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 22:00
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 22:00
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 22:00
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 22:00

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/F-#2 A | Sampled: 2/2/2012 18:54

Sample ID: 12B0194-04

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1221 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1232 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1242 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1248 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1254 [2]	360000	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1260 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1262 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC
Aroclor-1268 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 15:17
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 15:17
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 15:17
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 15:17

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/F-#2 B | Sampled: 2/2/2012 18:54

Sample ID: 12B0194-05

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1221 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1232 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1242 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1248 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1254 [2]	370000	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1260 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1262 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC
Aroclor-1268 [1]	ND	49000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 15:30
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 15:30
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 15:30
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 15:30

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/F-#2 C | Sampled: 2/2/2012 18:54

Sample ID: 12B0194-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1221 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1232 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1242 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1248 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1254 [2]	430000	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1260 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1262 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC
Aroclor-1268 [1]	ND	47000	mg/Kg	250000		SW-846 8082A	2/7/12	2/10/12 15:43	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 15:43
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 15:43
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 15:43
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 15:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/G-#3 | Sampled: 2/2/2012 19:05

Sample ID: 12B0194-07

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1221 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1232 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1242 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1248 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1254 [2]	5200	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1260 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1262 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC
Aroclor-1268 [1]	ND	400	mg/Kg	2000		SW-846 8082A	2/7/12	2/10/12 15:56	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 15:56
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 15:56
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 15:56
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 15:56

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/W-#4 | Sampled: 2/2/2012 19:07

Sample ID: 12B0194-08

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1221 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1232 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1242 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1248 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1254 [1]	8700	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1260 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1262 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC
Aroclor-1268 [1]	ND	460	mg/Kg	2500		SW-846 8082A	2/7/12	2/9/12 23:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 23:14
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 23:14
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 23:14
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 23:14

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/W-#5 | Sampled: 2/2/2012 19:11

Sample ID: 12B0194-09

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1221 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1232 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1242 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1248 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1254 [1]	23000	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1260 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1262 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC
Aroclor-1268 [1]	ND	960	mg/Kg	5000		SW-846 8082A	2/7/12	2/9/12 23:29	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 23:29
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 23:29
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 23:29
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 23:29

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 5-#1 | Sampled: 2/1/2012 22:00

Sample ID: 12B0194-10

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1221 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1232 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1242 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1248 [1]	81	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1254 [2]	59	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1260 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1262 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC
Aroclor-1268 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:09	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 16:09
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 16:09
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 16:09
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 16:09

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 4-#1 | Sampled: 2/1/2012 22:05

Sample ID: 12B0194-11

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1221 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1232 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1242 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1248 [1]	45	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1254 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1260 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1262 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC
Aroclor-1268 [1]	ND	9.3	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 0:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 0:59
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 0:59
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 0:59
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 0:59

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 3-#1 | Sampled: 2/1/2012 22:10

Sample ID: 12B0194-12

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1221 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1232 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1242 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1248 [2]	16	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1254 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1260 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1262 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC
Aroclor-1268 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	2/7/12	2/10/12 1:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/10/12 1:14
Decachlorobiphenyl [2]	116	30-150		2/10/12 1:14
Tetrachloro-m-xylene [1]	108	30-150		2/10/12 1:14
Tetrachloro-m-xylene [2]	108	30-150		2/10/12 1:14

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 5-#2 | Sampled: 2/1/2012 22:15

Sample ID: 12B0194-13

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1221 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1232 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1242 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1248 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1254 [2]	39	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1260 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1262 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC
Aroclor-1268 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 16:22
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 16:22
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 16:22
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 16:22

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 1-#1 | Sampled: 2/1/2012 22:20

Sample ID: 12B0194-14

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1221 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1232 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1242 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1248 [1]	43	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1254 [2]	37	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1260 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1262 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC
Aroclor-1268 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 16:35
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 16:35
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 16:35
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 16:35

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 2-#2 | Sampled: 2/1/2012 22:25

Sample ID: 12B0194-15

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1221 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1232 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1242 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1248 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1254 [1]	20	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1260 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1262 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC
Aroclor-1268 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 16:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 16:48
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 16:48
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 16:48
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 16:48

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 4-#2 | Sampled: 2/1/2012 22:30

Sample ID: 12B0194-16

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1221 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1232 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1242 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1248 [1]	53	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1254 [1]	25	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1260 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1262 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC
Aroclor-1268 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 17:01
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 17:01
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 17:01
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 17:01

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 2-#1 | Sampled: 2/1/2012 22:35

Sample ID: 12B0194-17

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1221 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1232 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1242 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1248 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1254 [1]	32	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1260 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1262 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC
Aroclor-1268 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 17:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 17:14
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 17:14
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 17:14
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 17:14

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-EW-INT-TYPE 3-#2 | Sampled: 2/1/2012 22:40

Sample ID: 12B0194-18

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1221 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1232 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1242 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1248 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1254 [2]	4.0	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1260 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1262 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC
Aroclor-1268 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	2/7/12	2/10/12 2:43	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.6	30-150		2/10/12 2:43
Decachlorobiphenyl [2]	101	30-150		2/10/12 2:43
Tetrachloro-m-xylene [1]	108	30-150		2/10/12 2:43
Tetrachloro-m-xylene [2]	104	30-150		2/10/12 2:43

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/W-#7 | Sampled: 2/1/2012 20:30

Sample ID: 12B0194-19

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1221 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1232 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1242 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1248 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1254 [1]	250	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1260 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1262 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC
Aroclor-1268 [1]	ND	20	mg/Kg	100		SW-846 8082A	2/7/12	2/10/12 2:58	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 2:58
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 2:58
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 2:58
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 2:58

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/G-#7 | Sampled: 2/1/2012 20:35

Sample ID: 12B0194-20

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1221 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1232 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1242 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1248 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1254 [1]	110	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1260 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1262 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC
Aroclor-1268 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	2/7/12	2/10/12 3:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/10/12 3:13
Decachlorobiphenyl [2]	*	30-150	S-01	2/10/12 3:13
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/10/12 3:13
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/10/12 3:13

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/W-#6 | Sampled: 2/1/2012 19:00

Sample ID: 12B0194-21

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1221 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1232 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1242 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1248 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1254 [2]	3200	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1260 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1262 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC
Aroclor-1268 [1]	ND	200	mg/Kg	1000		SW-846 8082A	2/7/12	2/9/12 16:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 16:46
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 16:46
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 16:46
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 16:46

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/G-#6 | Sampled: 2/1/2012 19:05

Sample ID: 12B0194-22

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1221 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1232 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1242 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1248 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1254 [2]	52	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1260 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1262 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC
Aroclor-1268 [1]	ND	9.2	mg/Kg	50		SW-846 8082A	2/7/12	2/9/12 17:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 17:01
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 17:01
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 17:01
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 17:01

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0194

Date Received: 2/6/2012

Field Sample #: Caulk-F/W-#6A | Sampled: 2/1/2012 19:05

Sample ID: 12B0194-23

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1221 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1232 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1242 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1248 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1254 [2]	1400	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1260 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1262 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC
Aroclor-1268 [1]	ND	92	mg/Kg	500		SW-846 8082A	2/7/12	2/9/12 17:16	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/9/12 17:16
Decachlorobiphenyl [2]	*	30-150	S-01	2/9/12 17:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/9/12 17:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/9/12 17:16

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0194-01 [Caulk-F/G-#1]	B045758	0.519	10.0	02/07/12
12B0194-02 [Caulk-F/W-#1]	B045758	0.511	10.0	02/07/12
12B0194-03 [Caulk-F/G-#2]	B045758	0.545	10.0	02/07/12
12B0194-04 [Caulk-F/F-#2 A]	B045758	0.527	10.0	02/07/12
12B0194-05 [Caulk-F/F-#2 B]	B045758	0.513	10.0	02/07/12
12B0194-06 [Caulk-F/F-#2 C]	B045758	0.532	10.0	02/07/12
12B0194-07 [Caulk-F/G-#3]	B045758	0.502	10.0	02/07/12
12B0194-08 [Caulk-F/W-#4]	B045758	0.542	10.0	02/07/12
12B0194-09 [Caulk-F/W-#5]	B045758	0.523	10.0	02/07/12
12B0194-10 [Caulk-EW-INT-TYPE 5-#1]	B045758	0.513	10.0	02/07/12
12B0194-11 [Caulk-EW-INT-TYPE 4-#1]	B045758	0.537	10.0	02/07/12
12B0194-12 [Caulk-EW-INT-TYPE 3-#1]	B045758	0.528	10.0	02/07/12
12B0194-13 [Caulk-EW-INT-TYPE 5-#2]	B045758	0.514	10.0	02/07/12
12B0194-14 [Caulk-EW-INT-TYPE 1-#1]	B045758	0.525	10.0	02/07/12
12B0194-15 [Caulk-EW-INT-TYPE 2-#2]	B045758	0.544	10.0	02/07/12
12B0194-16 [Caulk-EW-INT-TYPE 4-#2]	B045758	0.516	10.0	02/07/12
12B0194-17 [Caulk-EW-INT-TYPE 2-#1]	B045758	0.517	10.0	02/07/12
12B0194-18 [Caulk-EW-INT-TYPE 3-#2]	B045758	0.505	10.0	02/07/12
12B0194-19 [Caulk-F/W-#7]	B045758	0.508	10.0	02/07/12
12B0194-20 [Caulk-F/G-#7]	B045758	0.531	10.0	02/07/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0194-21 [Caulk-F/W-#6]	B045760	0.509	10.0	02/07/12
12B0194-22 [Caulk-F/G-#6]	B045760	0.541	10.0	02/07/12
12B0194-23 [Caulk-F/W-#6A]	B045760	0.544	10.0	02/07/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045758 - SW-846 3540C										
Blank (B045758-BLK1)				Prepared: 02/07/12 Analyzed: 02/09/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*4.65*		mg/Kg	4.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.10*		mg/Kg	4.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*4.11*		mg/Kg	4.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.09*		mg/Kg	4.00		102	30-150			
LCS (B045758-BS1)				Prepared: 02/07/12 Analyzed: 02/09/12						
Aroclor-1016	3.7	0.20	mg/Kg	4.00		92.4	40-140			
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		87.2	40-140			
Aroclor-1260	3.6	0.20	mg/Kg	4.00		90.8	40-140			
Aroclor-1260 [2C]	3.2	0.20	mg/Kg	4.00		81.2	40-140			
Surrogate: Decachlorobiphenyl	*3.97*		mg/Kg	4.00		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.53*		mg/Kg	4.00		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*3.78*		mg/Kg	4.00		94.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.76*		mg/Kg	4.00		93.9	30-150			
LCS Dup (B045758-BSD1)				Prepared: 02/07/12 Analyzed: 02/09/12						
Aroclor-1016	3.9	0.20	mg/Kg	4.00		97.9	40-140	5.79	30	
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	4.00		90.1	40-140	3.24	30	
Aroclor-1260	3.9	0.20	mg/Kg	4.00		96.7	40-140	6.29	30	
Aroclor-1260 [2C]	3.5	0.20	mg/Kg	4.00		86.4	40-140	6.27	30	
Surrogate: Decachlorobiphenyl	*4.01*		mg/Kg	4.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.58*		mg/Kg	4.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*3.68*		mg/Kg	4.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.67*		mg/Kg	4.00		91.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045760 - SW-846 3540C										
Blank (B045760-BLK1)				Prepared: 02/07/12 Analyzed: 02/09/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*3.80*		mg/Kg	4.00		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.48*		mg/Kg	4.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*5.05*		mg/Kg	4.00		126	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.62*		mg/Kg	4.00		116	30-150			
LCS (B045760-BS1)				Prepared: 02/07/12 Analyzed: 02/09/12						
Aroclor-1016	2.9	0.20	mg/Kg	4.00		72.2	40-140			
Aroclor-1016 [2C]	2.8	0.20	mg/Kg	4.00		70.7	40-140			
Aroclor-1260	2.4	0.20	mg/Kg	4.00		58.8	40-140			
Aroclor-1260 [2C]	2.4	0.20	mg/Kg	4.00		59.3	40-140			
Surrogate: Decachlorobiphenyl	*1.97*		mg/Kg	4.00		49.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.23*		mg/Kg	4.00		55.8	30-150			
Surrogate: Tetrachloro-m-xylene	*3.35*		mg/Kg	4.00		83.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.15*		mg/Kg	4.00		78.8	30-150			
LCS Dup (B045760-BSD1)				Prepared: 02/07/12 Analyzed: 02/09/12						
Aroclor-1016	5.2	0.20	mg/Kg	4.00		129	40-140	**56.6** *	30	R-05
Aroclor-1016 [2C]	4.9	0.20	mg/Kg	4.00		121	40-140	**52.7** *	30	R-05
Aroclor-1260	4.8	0.20	mg/Kg	4.00		119	40-140	**67.5** *	30	R-05
Aroclor-1260 [2C]	5.0	0.20	mg/Kg	4.00		126	40-140	**71.7** *	30	R-05
Surrogate: Decachlorobiphenyl	*4.54*		mg/Kg	4.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.99*		mg/Kg	4.00		125	30-150			
Surrogate: Tetrachloro-m-xylene	*6.15*		mg/Kg	4.00		**154** *	30-150			S-23
Surrogate: Tetrachloro-m-xylene [2C]	*5.65*		mg/Kg	4.00		141	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 1 of 3

1280194

Company Name: ATC Associates
Address: 600 West Cummings Park
Woburn, MA
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: C. Amorelli & J. Barker & D. White

Telephone: 781-932-9400
Project #: 060.41885.0001
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ◉ WEBSITE
Fax #: 781-932-6211
Email: daniel.white@atcassociates.com
Format: ◉ PDF ◉ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Time Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 (Soxhalet Ext.)											
01	Caulk-F/G- #1	2/2/12	2/2/12	1845	x	S	U	✓											
02	Caulk-F/W- #1	2/2/12	2/2/12	1847	x	S	U	✓											
03	Caulk-F/G- #2	2/2/12	2/2/12	1852	x	S	U	✓											
04	Caulk-F/F- #2 A	2/2/12	2/2/12	1854	x	S	U	✓											
05	Caulk-F/F- #2 B	2/2/12	2/2/12	1854	x	S	U	✓											
06	Caulk-F/F- #2 C	2/2/12	2/2/12	1854	x	S	U	✓											
07	Caulk-F/G- #3	2/2/12	2/2/12	1905	x	"	U	✓											
08	Caulk-F/W- #4	2/2/12	2/2/12	1907	x	"	U	✓											
09	Caulk-F/W- #5	2/2/12	2/2/12	1911	x	"	U	✓											
10	Caulk-EW-INT-TYPE 5- #1	2/2/12	2/2/12	2200	x	"	U	✓											

1											# of Containers
None											** Preservation
G											***Container Code

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Wipe

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	2/6/12
Received by: (signature)	2/6/12 1103
Relinquished by: (signature)	2/6/12 1700
Received by: (signature) 16.99	2/6/12 14:40

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other 5 Day
RUSH †
☐ †24-Hr ☐ †48-Hr
◉ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: EPA (TSCA
Connecticut:
Other: 1 ppm or lower

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12B0194

39 Spruce Street
East longmeadow, MA 01028

Company Name: ATC Associates
Address: 600 West Cummings Park, Woburn, MA
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: C. Amorelli & J. Barker & D. White

Project Proposal Provided? (for billing purposes)
○ yes ______ proposal date

Telephone: 781-932-9400
Project #: 060.41885.0001
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ⦿ EMAIL ⦿ WEBSITE
Fax #: 781-932-6211
Email: daniel.white@atcassociates.com
Format: ⦿ PDF ⦿ EXCEL ○ GIS
○ OTHER ______
○ "Enhanced Data Package"

# of Containers	1
** Preservation	None
***Container Code	G
ANALYSIS REQUESTED	PCBs 8082 (Soxhalet Ext.)

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/~~Time~~	Collection ~~Ending Date/Time~~	Time ~~Composite~~	Grab	*Matrix Code	Conc Code	PCBs 8082 (Soxhalet Ext.)
11	Caulk-EW-INT-TYPE 4- #1	2/1/12	~~2/1/12~~	2205	x	s	U	✓
12	Caulk-EW-INT-TYPE 3- #1	2/1/12	~~2/1/12~~	2210	x	s	U	✓
13	Caulk-EW-INT-TYPE 5- #2	2/1/12	~~2/1/12~~	2215	x	s	U	✓
14	Caulk-EW-INT-TYPE 1- #1	2/1/12	~~2/1/12~~	2220	x	s	U	✓
15	Caulk-EW-INT-TYPE 2- #2	2/1/12	~~2/1/12~~	2225	x	s	U	✓
16	Caulk-EW-INT-TYPE 4- #2	2/1/12	~~2/1/12~~	2230	x	~~o~~ S	U	✓
17	Caulk-EW-INT-TYPE 2- #1	2/1/12	~~2/1/12~~	2235	x	~~o~~	U	✓
18	Caulk-EW-INT-TYPE 3- #2	2/1/12	~~2/1/12~~	2240	x	~~o~~	U	✓
19	Caulk-F/W- #7	2/1/12	~~2/1/12~~	2030	x	~~o~~	U	✓
20	Caulk-F/G- #7	2/1/12	~~2/1/12~~	2035	x	~~o~~	U	✓

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other ______

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other ~~Wipe~~ ______

Relinquished by: (signature) [signature]	Date/Time: 2/6/12
Received by: (signature) [signature]	Date/Time: 2/6/12 [illegible]
Relinquished by: (signature) [signature]	Date/Time: 2/6/12 [illegible]
Received by: (signature) C. Clough-Segall 16.9°C	Date/Time: 14:40 2/6/12

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other 5 DAY
RUSH †
☐ †24-Hr ☐ †48-Hr
☒ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: ______
Connecticut: ______
Other: EPA/TSCA 1 ppm or lower

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # ______

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12B0194

Company Name: ATC Associates
Address: 600 West Cummings Park
Woburn, MA
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: C. Amorelli & J. Barker & D. White

Telephone: 781-932-9400
Project # 060.41885.0001
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ◉ WEBSITE
Fax # 781-932-6211
Email: daniel.white@atcassociates.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Time Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 (Soxhalet Ext.)
21	Caulk-F/W- #6	2/1/12	2/1/12	1900	x	S	U	✓
22	Caulk-F/G- #6	2/1/12	2/1/12	1905	x	S	U	✓
23	Caulk-F/W- #6A	2/1/12	2/1/12	1905	x	S	U	✓
					x	S	U	✓
					x	S	U	✓
					x	S	U	✓
					x	S	U	✓
					x	S	U	✓
					x	S	U	✓
					x	S	U	✓

	1											# of Containers
	None											** Preservation
	G											***Container Code

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Wipe

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 2/6/12	
Received by: (signature)	Date/Time: 2/6/12 1700	
Relinquished by: (signature)	Date/Time: 2/6/12 2400	
Received by: (signature) 16.9°C	Date/Time: 2/6/12 14:40	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other 5 Day
RUSH †
☐ †24-Hr ☐ †48-Hr
◉ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: EPA/TSCA 1 ppm or lower

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
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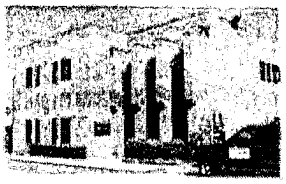

Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C.C-S. DATE: 2/6/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☒ C.C-S Direct from Sampling ☐ Ambient ☑ In Cooler(s) ☒ C.C-S.

Were the samples received in Temperature Compliance of (2-6°C)? Yes (No) N/A C.C-S

Temperature °C by Temp blank _____ Temperature °C by Temp gun 16.9°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	9
250 mL Amber (8oz amber)		2 oz amber/clear jar	14
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

con-test® ANALYTICAL LABORATORY
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February 17, 2012

Dan White
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: JFK Building, Boston, MA
Client Job Number:
Project Number: 60.41885.0001
Laboratory Work Order Number: 12B0193

Enclosed are results of analyses for samples received by the laboratory on February 6, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charles W. Balicki
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Dan White

REPORT DATE: 2/17/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.41885.0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0193

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JFK Building, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Wipe-Glass-#1	12B0193-01	Wipe		SW-846 8082A	
Wipe-Frame-#1	12B0193-02	Wipe		SW-846 8082A	
Wipe-Glass-#6	12B0193-03	Wipe		SW-846 8082A	
Wipe-Frame-#7	12B0193-04	Wipe		SW-846 8082A	
Wipe-Frame-#2	12B0193-05	Wipe		SW-846 8082A	
Wipe-Glass-#2	12B0193-06	Wipe		SW-846 8082A	
Wipe-Glass-#7	12B0193-07	Wipe		SW-846 8082A	
Wipe-Blank	12B0193-08	Wipe		SW-846 8082A	
Wipe-Glass-#3	12B0193-09	Wipe		SW-846 8082A	
Wipe-Frame-#3	12B0193-10	Wipe		SW-846 8082A	
Wipe-Frame-#6	12B0193-11	Wipe		SW-846 8082A	
Wipe-Frame-#6A	12B0193-12	Wipe		SW-846 8082A	
Wipe-Glass-#4	12B0193-13	Wipe		SW-846 8082A	
Wipe-Frame-#4	12B0193-14	Wipe		SW-846 8082A	
Wipe-Frame-#5	12B0193-15	Wipe		SW-846 8082A	
Wipe-Glass-#5	12B0193-16	Wipe		SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#1 | Sampled: 2/2/2012 18:20

Sample ID: 12B0193-01

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 8:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	69.9	30-150		2/17/12 8:59
Decachlorobiphenyl [2]	62.6	30-150		2/17/12 8:59
Tetrachloro-m-xylene [1]	86.1	30-150		2/17/12 8:59
Tetrachloro-m-xylene [2]	84.9	30-150		2/17/12 8:59

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#1 | Sampled: 2/2/2012 18:22

Sample ID: 12B0193-02

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1221 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1232 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1242 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1248 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1254 [2]	4.5	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1260 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1262 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC
Aroclor-1268 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	2/14/12	2/17/12 9:12	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.9	30-150		2/17/12 9:12
Decachlorobiphenyl [2]	86.8	30-150		2/17/12 9:12
Tetrachloro-m-xylene [1]	110	30-150		2/17/12 9:12
Tetrachloro-m-xylene [2]	112	30-150		2/17/12 9:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#6 | Sampled: 2/1/2012 19:00

Sample ID: 12B0193-03

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:25	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	75.1	30-150		2/17/12 9:25
Decachlorobiphenyl [2]	68.1	30-150		2/17/12 9:25
Tetrachloro-m-xylene [1]	87.9	30-150		2/17/12 9:25
Tetrachloro-m-xylene [2]	87.9	30-150		2/17/12 9:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#7 | Sampled: 2/1/2012 19:05

Sample ID: 12B0193-04

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:38	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	78.2	30-150		2/17/12 9:38
Decachlorobiphenyl [2]	70.5	30-150		2/17/12 9:38
Tetrachloro-m-xylene [1]	92.7	30-150		2/17/12 9:38
Tetrachloro-m-xylene [2]	92.6	30-150		2/17/12 9:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#2 | Sampled: 2/2/2012 18:40

Sample ID: 12B0193-05

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1254 [1]	1.1	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 9:51	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		2/17/12 9:51
Decachlorobiphenyl [2]	94.1	30-150		2/17/12 9:51
Tetrachloro-m-xylene [1]	92.5	30-150		2/17/12 9:51
Tetrachloro-m-xylene [2]	92.7	30-150		2/17/12 9:51

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#2 | Sampled: 2/2/2012 18:42

Sample ID: 12B0193-06

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:04	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.9	30-150		2/17/12 10:04
Decachlorobiphenyl [2]	70.5	30-150		2/17/12 10:04
Tetrachloro-m-xylene [1]	96.9	30-150		2/17/12 10:04
Tetrachloro-m-xylene [2]	97.2	30-150		2/17/12 10:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#7 | Sampled: 2/1/2012 19:07

Sample ID: 12B0193-07

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 10:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.4	30-150		2/17/12 10:17
Decachlorobiphenyl [2]	69.9	30-150		2/17/12 10:17
Tetrachloro-m-xylene [1]	92.9	30-150		2/17/12 10:17
Tetrachloro-m-xylene [2]	93.3	30-150		2/17/12 10:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Blank | Sampled: 2/1/2012 18:25

Sample ID: 12B0193-08

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		2/17/12 11:17
Decachlorobiphenyl [2]	93.7	30-150		2/17/12 11:17
Tetrachloro-m-xylene [1]	96.1	30-150		2/17/12 11:17
Tetrachloro-m-xylene [2]	97.4	30-150		2/17/12 11:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#3 | Sampled: 2/2/2012 18:29

Sample ID: 12B0193-09

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		2/17/12 11:30
Decachlorobiphenyl [2]	96.2	30-150		2/17/12 11:30
Tetrachloro-m-xylene [1]	95.8	30-150		2/17/12 11:30
Tetrachloro-m-xylene [2]	95.7	30-150		2/17/12 11:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#3 | Sampled: 2/2/2012 18:32

Sample ID: 12B0193-10

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1254 [1]	2.1	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:43	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.4	30-150		2/17/12 11:43
Decachlorobiphenyl [2]	95.9	30-150		2/17/12 11:43
Tetrachloro-m-xylene [1]	95.9	30-150		2/17/12 11:43
Tetrachloro-m-xylene [2]	96.4	30-150		2/17/12 11:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#6 | Sampled: 2/1/2012 18:49

Sample ID: 12B0193-11

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 11:56	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	67.7	30-150		2/17/12 11:56
Decachlorobiphenyl [2]	66.2	30-150		2/17/12 11:56
Tetrachloro-m-xylene [1]	87.8	30-150		2/17/12 11:56
Tetrachloro-m-xylene [2]	89.3	30-150		2/17/12 11:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#6A | Sampled: 2/1/2012 18:53

Sample ID: 12B0193-12

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1254 [2]	0.88	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:09	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.5	30-150		2/17/12 12:09
Decachlorobiphenyl [2]	72.8	30-150		2/17/12 12:09
Tetrachloro-m-xylene [1]	89.9	30-150		2/17/12 12:09
Tetrachloro-m-xylene [2]	91.0	30-150		2/17/12 12:09

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#4 | Sampled: 2/2/2012 20:11

Sample ID: 12B0193-13

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1254 [2]	0.33	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 12:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	80.1	30-150		2/17/12 12:22
Decachlorobiphenyl [2]	73.3	30-150		2/17/12 12:22
Tetrachloro-m-xylene [1]	94.7	30-150		2/17/12 12:22
Tetrachloro-m-xylene [2]	95.8	30-150		2/17/12 12:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#4 | Sampled: 2/2/2012 20:13

Sample ID: 12B0193-14

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1221 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1232 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1242 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1248 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1254 [1]	19	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1260 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1262 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC
Aroclor-1268 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.4	30-150		2/17/12 12:35
Decachlorobiphenyl [2]	77.7	30-150		2/17/12 12:35
Tetrachloro-m-xylene [1]	61.4	30-150		2/17/12 12:35
Tetrachloro-m-xylene [2]	64.7	30-150		2/17/12 12:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Frame-#5 | Sampled: 2/2/2012 20:19

Sample ID: 12B0193-15

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1221 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1232 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1242 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1248 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1254 [2]	12	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1260 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1262 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC
Aroclor-1268 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	2/14/12	2/17/12 12:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.0	30-150		2/17/12 12:48
Decachlorobiphenyl [2]	82.2	30-150		2/17/12 12:48
Tetrachloro-m-xylene [1]	108	30-150		2/17/12 12:48
Tetrachloro-m-xylene [2]	113	30-150		2/17/12 12:48

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0193

Date Received: 2/6/2012

Field Sample #: Wipe-Glass-#5 | Sampled: 2/2/2012 20:22

Sample ID: 12B0193-16

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1254 [2]	0.35	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	2/14/12	2/17/12 13:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	67.2	30-150		2/17/12 13:01
Decachlorobiphenyl [2]	61.8	30-150		2/17/12 13:01
Tetrachloro-m-xylene [1]	88.1	30-150		2/17/12 13:01
Tetrachloro-m-xylene [2]	89.3	30-150		2/17/12 13:01

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
12B0193-01 [Wipe-Glass-#1]	B046198	1.00	10.0	02/14/12
12B0193-02 [Wipe-Frame-#1]	B046198	1.00	10.0	02/14/12
12B0193-03 [Wipe-Glass-#6]	B046198	1.00	10.0	02/14/12
12B0193-04 [Wipe-Frame-#7]	B046198	1.00	10.0	02/14/12
12B0193-05 [Wipe-Frame-#2]	B046198	1.00	10.0	02/14/12
12B0193-06 [Wipe-Glass-#2]	B046198	1.00	10.0	02/14/12
12B0193-07 [Wipe-Glass-#7]	B046198	1.00	10.0	02/14/12
12B0193-08 [Wipe-Blank]	B046198	1.00	10.0	02/14/12
12B0193-09 [Wipe-Glass-#3]	B046198	1.00	10.0	02/14/12
12B0193-10 [Wipe-Frame-#3]	B046198	1.00	10.0	02/14/12
12B0193-11 [Wipe-Frame-#6]	B046198	1.00	10.0	02/14/12
12B0193-12 [Wipe-Frame-#6A]	B046198	1.00	10.0	02/14/12
12B0193-13 [Wipe-Glass-#4]	B046198	1.00	10.0	02/14/12
12B0193-14 [Wipe-Frame-#4]	B046198	1.00	10.0	02/14/12
12B0193-15 [Wipe-Frame-#5]	B046198	1.00	10.0	02/14/12
12B0193-16 [Wipe-Glass-#5]	B046198	1.00	10.0	02/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046198 - SW-846 3540C										
Blank (B046198-BLK1)				Prepared: 02/14/12 Analyzed: 02/15/12						
Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Surrogate: Decachlorobiphenyl	*1.91*		µg/Wipe	2.00		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.39*		µg/Wipe	2.00		119	30-150			
Surrogate: Tetrachloro-m-xylene	*1.72*		µg/Wipe	2.00		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.91*		µg/Wipe	2.00		95.4	30-150			
LCS (B046198-BS1)				Prepared: 02/14/12 Analyzed: 02/15/12						
Aroclor-1016	0.52	0.20	µg/Wipe	0.500		104	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/Wipe	0.500		109	40-140			
Aroclor-1260	0.53	0.20	µg/Wipe	0.500		106	40-140			
Aroclor-1260 [2C]	0.55	0.20	µg/Wipe	0.500		110	40-140			
Surrogate: Decachlorobiphenyl	*2.03*		µg/Wipe	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.56*		µg/Wipe	2.00		128	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/Wipe	2.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.08*		µg/Wipe	2.00		104	30-150			
LCS Dup (B046198-BSD1)				Prepared: 02/14/12 Analyzed: 02/15/12						
Aroclor-1016	0.48	0.20	µg/Wipe	0.500		96.2	40-140	7.96	30	
Aroclor-1016 [2C]	0.50	0.20	µg/Wipe	0.500		99.0	40-140	9.51	30	
Aroclor-1260	0.50	0.20	µg/Wipe	0.500		101	40-140	4.80	30	
Aroclor-1260 [2C]	0.55	0.20	µg/Wipe	0.500		111	40-140	0.210	30	
Surrogate: Decachlorobiphenyl	*1.93*		µg/Wipe	2.00		96.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.45*		µg/Wipe	2.00		123	30-150			
Surrogate: Tetrachloro-m-xylene	*1.64*		µg/Wipe	2.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.81*		µg/Wipe	2.00		90.6	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12B0193

Company Name: ATC Associates
Address: 600 West Cummings Park, Woburn, MA
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: C. Amorelli & J. Barker & D. White

Telephone: 781-932-9400
Project # 060.41885.0001
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ◉ WEBSITE
Fax # 781-932-6211
Email: daniel.white@atcassociates.com
Format: ◉ PDF ◉ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	TIME Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 (Soxhalet Ext.)
01	Wipe-Glass- #1	2/2/12	2/2/12	1820	x	SO	U	✓
02	Wipe-Frame- #1	2/2/12	2/2/12	1822	x	S	U	✓
03	Wipe-Glass- #6	2/1/12	2/1/12	1900	x	S	U	✓
04	Wipe-Frame- #7	2/1/12	2/1/12	1905	x	S	U	✓
~~05~~ no. 05	Wipe-Frame- #2	2/2/12	2/2/12	1840	x	SD	U	✓
06	Wipe-Glass- #2	2/2/12	2/2/12	1842	x	O	U	✓
07	Wipe-Glass- #7	2/1/12	2/1/12	1907	x	O	U	✓
08	Wipe-Blank	2/1/12	2/1/12	1825	x	O	U	✓
09	Wipe-Glass- #3	2/2/12	2/2/12	1829	x	O	U	✓
10	Wipe-Frame- #3	2/2/12	2/2/12	1832	x	O	U	✓

ANALYSIS REQUESTED

	# of Containers	** Preservation	***Container Code
1			
None			
G			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Wipe

Comments:
HOLD ALL SAMPLES
*Run all samples per Dan White 2/14/12 cwB

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature) 16.92	Date/Time: 14:40

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other 5 DAY
RUSH †
☐ †24-Hr ☐ †48-Hr
☒ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
~~Massachusetts:~~ EPA/TSCA
Connecticut:
Other: 1 ppm or lower / µg/wipe

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Fax: 413-525-6405
Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1230193

Company Name: ATC Associates
Address: 600 West Cummings Park
Woburn, MA
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: C. Amorelli & J. Barker & D. White

Telephone: 781-932-9400
Project # 060.41885.0001
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ◉ WEBSITE
Fax # 781-932-6211
Email: daniel.white@atcassociates.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Collection Time Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 (Soxhlet Ext.)	# of Containers	** Preservation	***Container Code
								ANALYSIS REQUESTED	1	None	G
11	Wipe-Frame- #6 ↑	2/1/12	2/1/12	1849	x	SO	U	✓			
12	Wipe-Frame- #6A H	2/1/12	2/1/12	1853	x	S ↓	U	✓			
13	Wipe-Glass- #4 D	2/2/12	2/2/12	2011	x	S O	U	✓			
14	Wipe-Frame- #4 L	2/2/12	2/2/12	2013	x	S	U	✓			
15	Wipe-Frame- #5 D	2/2/12	2/2/12	2019	x	S	U	✓			
16	Wipe-Glass- #5 ↓	2/2/12	2/2/12	2022	x	O ✓	U	✓			
					x	O	U	✓			
					x	O	U	✓			
					x	O	U	✓			
					x	O	U	✓			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Wipe

Comments:
HOLD ALL SAMPLES

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 2/6/12	
Received by: (signature)	Date/Time: 2/6/12 11:15	
Relinquished by: (signature)	Date/Time: 2/6/12 2:45	
Received by: (signature) 16.9°C	Date/Time: 2/6/12 14:40	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other 5 DAY
RUSH †
☐ †24-Hr ☐ †48-Hr
☑ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: EPA/FSCA
Connecticut:
Other: 1 ppm or lower

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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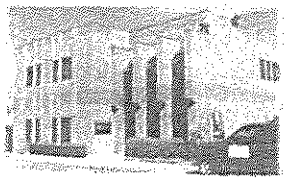
Sample Receipt Checklist



CLIENT NAME: ATC RECEIVED BY: C.C-S. DATE: 2/6/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☒ C.C-S. Direct from Sampling ☐ Ambient ☑ In Cooler(s) ☒ C.C-S.

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A C.C-S.

Temperature °C by Temp blank _____ Temperature °C by Temp gun 16.9C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	16
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

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February 17, 2012

Dan White
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: JFK Building, Boston, MA
Client Job Number:
Project Number: 60.41885.0001
Laboratory Work Order Number: 12B0196

Enclosed are results of analyses for samples received by the laboratory on February 6, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charles W. Balicki
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Dan White

REPORT DATE: 2/17/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.41885.0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0196

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: JFK Building, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PAV-A	12B0196-01	Product/Solid		SW-846 8082A	
PAV-B	12B0196-02	Product/Solid		SW-846 8082A	
PAV-C	12B0196-03	Product/Solid		SW-846 8082A	
Concrete-6-1in	12B0196-04	Concrete		SW-846 8082A	
Concrete-6-1in A	12B0196-05	Concrete		SW-846 8082A	
Concrete-6-6in	12B0196-06	Concrete		SW-846 8082A	
Concrete-6-12in	12B0196-07	Concrete		SW-846 8082A	
Concrete-3-1in	12B0196-08	Concrete		SW-846 8082A	
Concrete-3-6in	12B0196-09	Concrete		SW-846 8082A	
Concrete-3-12in	12B0196-10	Concrete		SW-846 8082A	
Concrete-5-1in	12B0196-11	Concrete		SW-846 8082A	
Concrete-5-6in	12B0196-12	Concrete		SW-846 8082A	
Concrete-5-12in	12B0196-13	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B046199-MS1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

12B0196-08[Concrete-3-1in], 12B0196-11[Concrete-5-1in]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: PAV-A | Sampled: 2/2/2012 20:00

Sample ID: 12B0196-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1254 [2]	0.53	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:06	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		2/15/12 19:06
Decachlorobiphenyl [2]	93.4	30-150		2/15/12 19:06
Tetrachloro-m-xylene [1]	106	30-150		2/15/12 19:06
Tetrachloro-m-xylene [2]	96.4	30-150		2/15/12 19:06

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: PAV-B | Sampled: 2/2/2012 20:05

Sample ID: 12B0196-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1254 [2]	0.52	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:19	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/15/12 19:19
Decachlorobiphenyl [2]	87.5	30-150		2/15/12 19:19
Tetrachloro-m-xylene [1]	100	30-150		2/15/12 19:19
Tetrachloro-m-xylene [2]	92.0	30-150		2/15/12 19:19

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: PAV-C | Sampled: 2/2/2012 20:08

Sample ID: 12B0196-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:32	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		2/15/12 19:32
Decachlorobiphenyl [2]	88.4	30-150		2/15/12 19:32
Tetrachloro-m-xylene [1]	104	30-150		2/15/12 19:32
Tetrachloro-m-xylene [2]	94.5	30-150		2/15/12 19:32

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-6-1in | Sampled: 2/2/2012 19:10

Sample ID: 12B0196-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:44	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		2/15/12 19:44
Decachlorobiphenyl [2]	90.3	30-150		2/15/12 19:44
Tetrachloro-m-xylene [1]	105	30-150		2/15/12 19:44
Tetrachloro-m-xylene [2]	95.0	30-150		2/15/12 19:44

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-6-1in A | Sampled: 2/2/2012 19:10

Sample ID: 12B0196-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 19:57	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.4	30-150		2/15/12 19:57
Decachlorobiphenyl [2]	85.1	30-150		2/15/12 19:57
Tetrachloro-m-xylene [1]	99.9	30-150		2/15/12 19:57
Tetrachloro-m-xylene [2]	90.8	30-150		2/15/12 19:57

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-6-6in | Sampled: 2/2/2012 19:15

Sample ID: 12B0196-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:10	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		2/15/12 20:10
Decachlorobiphenyl [2]	92.5	30-150		2/15/12 20:10
Tetrachloro-m-xylene [1]	108	30-150		2/15/12 20:10
Tetrachloro-m-xylene [2]	97.9	30-150		2/15/12 20:10

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-6-12in | Sampled: 2/2/2012 19:20

Sample ID: 12B0196-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 20:23	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		2/15/12 20:23
Decachlorobiphenyl [2]	87.3	30-150		2/15/12 20:23
Tetrachloro-m-xylene [1]	101	30-150		2/15/12 20:23
Tetrachloro-m-xylene [2]	91.9	30-150		2/15/12 20:23

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-3-1in | Sampled: 2/2/2012 19:30

Sample ID: 12B0196-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1221 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1232 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1242 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1248 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1254 [2]	41	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1260 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1262 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC
Aroclor-1268 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/16/12 13:30
Decachlorobiphenyl [2]	*	30-150	S-01	2/16/12 13:30
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/16/12 13:30
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/16/12 13:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-3-6in | Sampled: 2/2/2012 19:35

Sample ID: 12B0196-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1254 [1]	0.53	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/15/12 21:13
Decachlorobiphenyl [2]	83.7	30-150		2/15/12 21:13
Tetrachloro-m-xylene [1]	99.9	30-150		2/15/12 21:13
Tetrachloro-m-xylene [2]	90.3	30-150		2/15/12 21:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-3-12in | Sampled: 2/2/2012 19:40

Sample ID: 12B0196-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1254 [2]	0.32	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:26	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/15/12 21:26
Decachlorobiphenyl [2]	87.4	30-150		2/15/12 21:26
Tetrachloro-m-xylene [1]	101	30-150		2/15/12 21:26
Tetrachloro-m-xylene [2]	91.7	30-150		2/15/12 21:26

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-5-1in | Sampled: 2/2/2012 19:45

Sample ID: 12B0196-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1221 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1232 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1242 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1248 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1254 [2]	31	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1260 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1262 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC
Aroclor-1268 [1]	ND	10	mg/Kg	100		SW-846 8082A	2/14/12	2/16/12 13:43	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	2/16/12 13:43
Decachlorobiphenyl [2]	*	30-150	S-01	2/16/12 13:43
Tetrachloro-m-xylene [1]	*	30-150	S-01	2/16/12 13:43
Tetrachloro-m-xylene [2]	*	30-150	S-01	2/16/12 13:43

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-5-6in | Sampled: 2/2/2012 19:50

Sample ID: 12B0196-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1254 [2]	0.37	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 21:51	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.8	30-150		2/15/12 21:51
Decachlorobiphenyl [2]	83.2	30-150		2/15/12 21:51
Tetrachloro-m-xylene [1]	99.7	30-150		2/15/12 21:51
Tetrachloro-m-xylene [2]	90.6	30-150		2/15/12 21:51

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Project Location: JFK Building, Boston, MA | Sample Description: | Work Order: 12B0196

Date Received: 2/6/2012

Field Sample #: Concrete-5-12in | Sampled: 2/2/2012 19:55

Sample ID: 12B0196-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1254 [2]	0.58	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/14/12	2/15/12 22:04	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		2/15/12 22:04
Decachlorobiphenyl [2]	92.4	30-150		2/15/12 22:04
Tetrachloro-m-xylene [1]	103	30-150		2/15/12 22:04
Tetrachloro-m-xylene [2]	93.6	30-150		2/15/12 22:04

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0196-01 [PAV-A]	B046199	2.00	10.0	02/14/12
12B0196-02 [PAV-B]	B046199	2.00	10.0	02/14/12
12B0196-03 [PAV-C]	B046199	2.10	10.0	02/14/12
12B0196-04 [Concrete-6-1in]	B046199	2.00	10.0	02/14/12
12B0196-05 [Concrete-6-1in A]	B046199	2.00	10.0	02/14/12
12B0196-06 [Concrete-6-6in]	B046199	2.10	10.0	02/14/12
12B0196-07 [Concrete-6-12in]	B046199	2.00	10.0	02/14/12
12B0196-08 [Concrete-3-1in]	B046199	2.20	10.0	02/14/12
12B0196-09 [Concrete-3-6in]	B046199	2.10	10.0	02/14/12
12B0196-10 [Concrete-3-12in]	B046199	2.00	10.0	02/14/12
12B0196-11 [Concrete-5-1in]	B046199	2.00	10.0	02/14/12
12B0196-12 [Concrete-5-6in]	B046199	2.00	10.0	02/14/12
12B0196-13 [Concrete-5-12in]	B046199	2.10	10.0	02/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046199 - SW-846 3540C										
Blank (B046199-BLK1)				Prepared: 02/14/12 Analyzed: 02/15/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.904*		mg/Kg	1.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.954*		mg/Kg	1.00		95.4	30-150			
LCS (B046199-BS1)				Prepared: 02/14/12 Analyzed: 02/15/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg	0.250		95.2	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.8	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		91.3	40-140			
Surrogate: Decachlorobiphenyl	*0.972*		mg/Kg	1.00		97.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.836*		mg/Kg	1.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.983*		mg/Kg	1.00		98.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.895*		mg/Kg	1.00		89.5	30-150			
LCS Dup (B046199-BSD1)				Prepared: 02/14/12 Analyzed: 02/15/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140	9.92	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		102	40-140	6.73	30	
Aroclor-1260	0.27	0.10	mg/Kg	0.250		109	40-140	11.6	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	12.0	30	
Surrogate: Decachlorobiphenyl	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.922*		mg/Kg	1.00		92.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.950*		mg/Kg	1.00		95.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B046199 - SW-846 3540C											
Matrix Spike (B046199-MS1)	**Source: 12B0196-01**			Prepared: 02/14/12 Analyzed: 02/15/12							
Aroclor-1016	0.28	0.10	mg/Kg	0.250	0.0	112		40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250	0.0	111		40-140			
Aroclor-1260	0.37	0.10	mg/Kg	0.250	0.0	**147**	*	40-140			MS-22
Aroclor-1260 [2C]	0.38	0.10	mg/Kg	0.250	0.0	**154**	*	40-140			MS-22
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.896*		mg/Kg	1.00		89.6		30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.958*		mg/Kg	1.00		95.8		30-150			
Matrix Spike Dup (B046199-MSD1)	**Source: 12B0196-01**			Prepared: 02/14/12 Analyzed: 02/15/12							
Aroclor-1016	0.29	0.10	mg/Kg	0.250	0.0	118		40-140	4.79	50	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250	0.0	111		40-140	0.218	50	
Aroclor-1260	0.28	0.10	mg/Kg	0.250	0.0	112		40-140	26.9	50	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250	0.0	116		40-140	28.0	50	
Surrogate: Decachlorobiphenyl	*0.997*		mg/Kg	1.00		99.7		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.855*		mg/Kg	1.00		85.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.981*		mg/Kg	1.00		98.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.890*		mg/Kg	1.00		89.0		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12B0196

Company Name: ATC Associates
Address: 600 West Cummings Park
Woburn, MA
Attention: Dan White
Project Location: JFK Building, Boston, MA
Sampled By: C. Amorelli & J. Barker & D. White

Telephone: 781-932-9400
Project # 060.41885.0001
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ◉ WEBSITE
Fax # 781-932-6211
Email: daniel.white@atcassociates.com
Format: ◉ PDF ◉ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	TIME ~~Composite~~	Grab	*Matrix Code	Conc Code	PCBs 8082 (Soxhalet Ext.)												# of Containers / ** Preservation / ***Container Code
								1												# of Containers
								None												** Preservation
								G												***Container Code
01	PAV - A	2/2/12	2/2/12	2000	x	S	U	✓												
02	PAV - B	2/2/12	2/2/12	2005	x	S	U	✓												
03	PAV - C	2/2/12	2/2/12	2008	x	S	U	✓												
04	Concrete-6-1" H	2/2/12	2/2/12	1910	x	S	U	✓												
05	Concrete-6-1" A O	2/2/12	2/2/12	1910	x	S	U	✓												
06	Concrete-6-6" L	2/2/12	2/2/12	1915	x	O	U	✓												
07	Concrete-6-12" D	2/2/12	2/2/12	1920	x	O	U	✓												
08	Concrete-3-1"	2/2/12	2/2/12	1930	x	O	U	✓												
09	Concrete-3-6"	2/2/12	2/2/12	1935	x	O	U	✓												
10	Concrete-3-12"	2/2/12	2/2/12	1940	x	O	U	✓												

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Wipe

Comments:
Hold All Samples
*Run all samples per Dan White 2/14-Q CWB

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 2/6/12	
Received by: (signature)	Date/Time: 2/6/12 1345	
Relinquished by: (signature)	Date/Time: 2/6/12 2?	
Received by: (signature) 16.9°C	Date/Time: 14:40	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other 5 Day
RUSH †
☐ †24-Hr ☐ †48-Hr
◙ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: 1 ppm or lower

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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								None										** Preservation
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12	Concrete-5-6" O	2/2/12	2/2/12	1950	x	s	U	✓										
13	Concrete-5-12" L	2/2/12	2/2/12	1955	x	s	U	✓										
	D	~~2/1/12~~	~~2/1/12~~		x	s	U	✓										
		~~2/1/12~~	~~2/1/12~~		x	s	U	✓										
		~~2/1/12~~	~~2/1/12~~		x	o	U	✓										
		~~2/1/12~~	~~2/1/12~~		x	o	U	✓										
		~~2/1/12~~	~~2/1/12~~		x	o	U	✓										
		~~2/1/12~~	~~2/1/12~~		x	o	U	✓										
		~~2/1/12~~	~~2/1/12~~		x	o	U	✓										

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☐ 7-Day
☐ 10-Day
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NELAC & AIHA Certified
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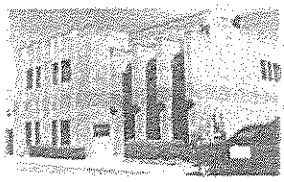

Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C.C-S DATE: 2/6/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 16.9°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	9
250 mL Amber (8oz amber)		2 oz amber/clear jar	4
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____